

County Justice Information Exchange Project ~ (CJIEP)

Implementation Manual

March 5, 2008

Implementation CD Version History

03/05/2008

- Added new AOPC schema to JBOSS file
- Added new mapping to DA system

10/24/2007

- Docket ID Translation Maintenance
 - Added clarifying instructions
- Data Validation Criteria
 - Added the data validation criteria for the Adult Probation, District Attorney and Jail records management systems to the User Manual section.

9/27/2007

- File Changes:
 - Changed the bridge's config.xml file to point to the correct "InMessages" location. No changes necessary at the county.
- Document Changes:
 - Corrected typo in 8/31/2007 version history note (changed "fun" to "run")
 - Added clarification to not include the .jws extension when registering the web services in the UDDI.
 - Added additional steps to configure database if JBOSS is being installed on a port other than 8081.
 - Added missing quotes around the command used to stop and start the Apache Tomcat service when setting up the Scheduled Tasks (new screenshots).

9/14/2007

- File Changes:
 - Added CJIEPAPCreate.sql. This file is located in the *Installation – Web Services* directory of the CD and will create the Adult Probation database package.
- Document Changes:
 - Added instructions for running the above script
 - Added configuration instructions for rolling system into production.

8/31/2007

- File Changes:
 - Fixed the script that creates the CJIEP database due to a missing field. This script is the *CJIEPFullCreate.sql* file located in the *Installation – Web Services\CJIEP-Temp* directory and will need to be run again. It is recommended that you use Oracle's Enterprise Manager to remove all objects in the existing CJIEP Database prior to running the script.
 - Fixed typo in *ServiceAgent.exe.config* file. This file is located in the *Installation – ServiceAgent* directory of the CD. Please replace the existing file (located at *c:\Program Files\CJIEP ServiceAgent*) with the new one and repeat the steps at the bottom of page 27 (entering the county and jurisdiction ids).
 - Replaced JDK 1.4.2_02 with 1.4.2_13. It is recommended to install 1.4.2_13 to keep consistency across counties, and this document was referencing 1.4.2_13 in several places (including setting the *java_home* variable and setting up the JBOSS service). However, 1.4.2_02 will work if the county already has that version installed and working correctly with the system.
 - Made a minor change to the JBOSS-3.2.6 file to remove a value from Lancaster County that was in the Email notification configuration file. No changes by the counties are necessary, as this value would be overwritten during the install.
- Document Changes:
 - Pages 7, 8, 9: Added screenshots of the JAVA install process
 - Pages 11 – 14: Added Screenshots to the Tomcat installation for clarification purposes.
 - Pages 16 – 21: Due to JNET changes that timeout the connection, it was necessary to add additional steps to create scheduled tasks to periodically restart the Tomcat Service to reset the connection.
 - Pages 22 – 28: Added Screenshots to the MySQL installation for clarification purposes.
 - Page 30: Changed JUDDI script name typo from *create_database.sql* to *create_juddi_database.sql*
 - Pages 30, 31: Added instructions for modifying JUDDI password to the Install JUDDI section.
 - Page 36: Added missing screenshot to the Service Agent setup.
 - Pages 42, 43: Clarified using SQL Plus for the CJIEP database creation and added screenshots.
 - Page 44: Added instructions on how to find the TNS name for the database connection.
 - Page 45: Added step in the Email Configuration for specifying the SMTP server.

8/09/2007

- Rollout of AOPC new schema (1.0.6J). This change is included in the .ear file contained in the JBOSS 3.2.6 zip file. No changes to this document necessary
- Updated JUDDI install
 - All information included in one .war file, which eliminates two steps.

- Code for Tomcat's server.xml is now in a text file to make copying and pasting it into the file easier.

8/05/2007

- Redesign of This Installation Document (layout changes, screenshots, consolidation of instructions, etc)
- Added instructions for adding JAVA_HOME environment variables during the JAVA SDK install.
- Corrected several typos and paths to files.
- Corrected juddi password in Server.xml edit (from "juddi" to "123456" to match the script.
- Corrected the juddi password in the juddi.users file on the CD to match the script.
- Modified some files to remove references to county-specific names, and replace with instructions (for example, removed a server name and put in "YOUR SERVER NAME HERE"). This will make it clearer what sections to change in the file.

8/02/2007

- Corrected several typos
- Added MdbEjb.jsp to the JBOSS deployment file

7/27/2007

- Updated JUDDI database creation script
- Updated JUDDI zip file to include some files to eliminate a few installation steps.
- Updated JUDDI installation instructions
- Updated the CJIEP database creation script
- Updated the JBOSS zip file to correct java IncompatibleClassChange Error

7/20/2007

- Updated Implementation Manual to clarify Juddi Installation.
- Added JUDDI database creation script to Supporting Software/Juddi directory.
- Clarified several other points in the Implementation Manual related to installation directories.
- Corrected several files related to the JBOSS installation.

7/19/2007

- Updated Implementation Manual to reflect correct JUDDI version (0.8.0).

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I. INSTALLATION PREPARATION

Introduction

This implementation document was developed as part of the County Information Exchange Pilot (CJIEP) Project.

Infrastructure Requirements: Hardware and Software Specifications

Prior to implementation, your county was required to complete a Readiness Assessment Document (RAD). The evaluation of this completed document determined your county's readiness, which included in part the infrastructure. A section of the RAD, which contains the infrastructure requirements with the hardware and software specifications, has been included as an appendix of this implementation manual.

Installation Assumptions

It is assumed that the server where the CJIEP application is to be installed has the following:

- ❖ 500Mb Free space (5Gb or greater preferred).
- ❖ Appropriate Oracle client installed.
 - Scripts provided with this install have been tested using Oracle 9i. Other versions may require some minor changes to the database creation scripts due to differences in syntax.

II. INSTALLATION OF PRE-REQUIRED SOFTWARE

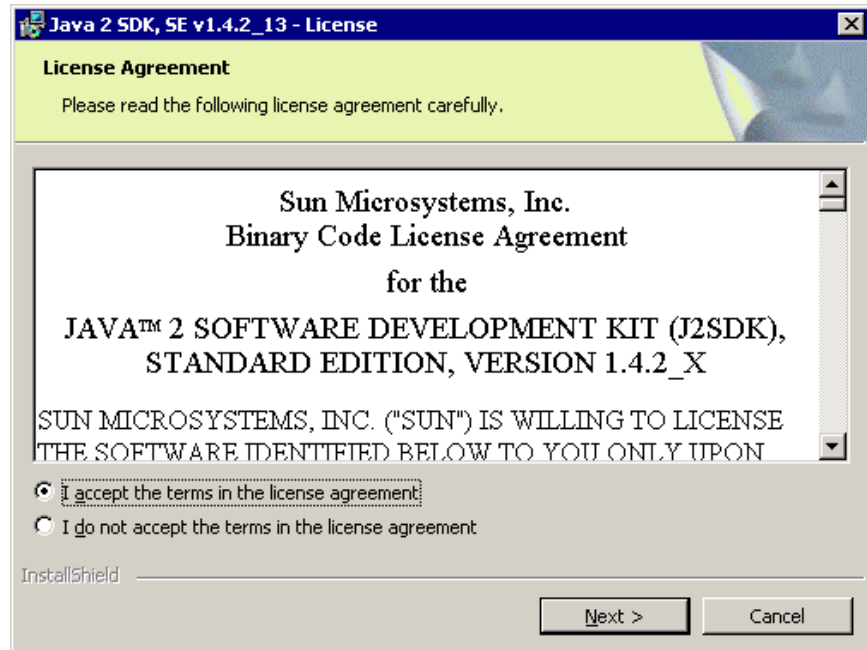
Introduction

In this section we will install pre-required software packages. These are included on the installation CD in [Supporting Software](#) Folder and consist of:

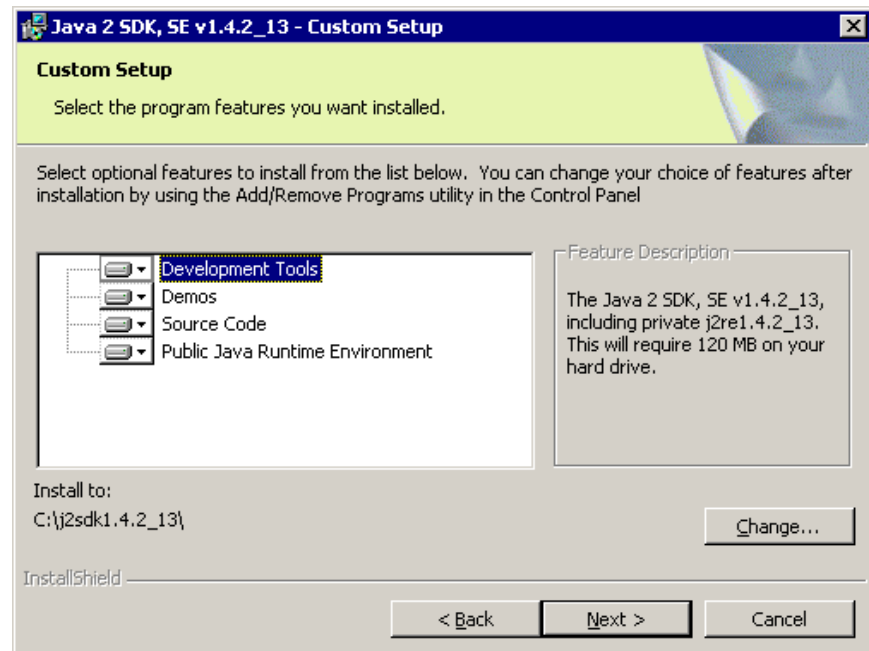
- JAVA SDK 1.4.02
- Tomcat 5.0
- MySQL 4.1
- jUDDI 0.8.0

JAVA SDK 1.4.2_13

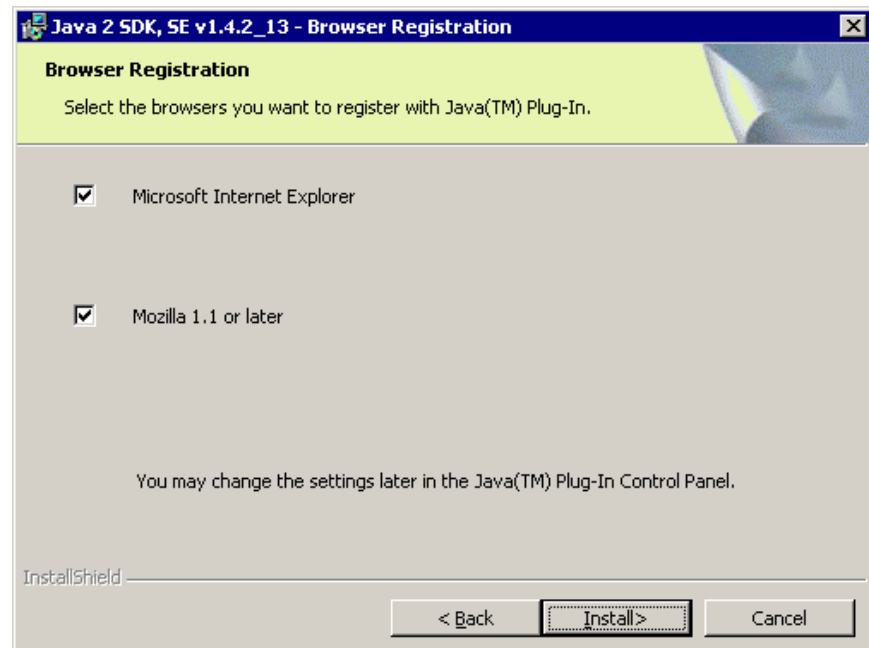
- ❖ Install JAVA SDK version 1.4.2_13
 - Run the *j2sdk-1_4_2_13-windows-i586-p.exe* file located in the [Supporting Software\JAVA 1.4.02](#) folder of the installation CD.



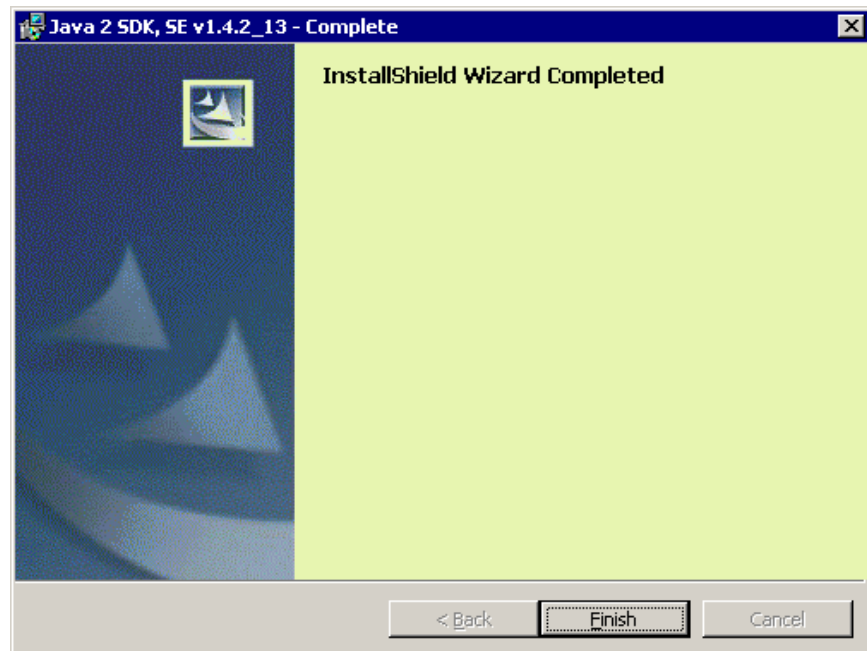
- Check "I accept the terms in the license agreement"
- Press "Next"



- Press “Next”

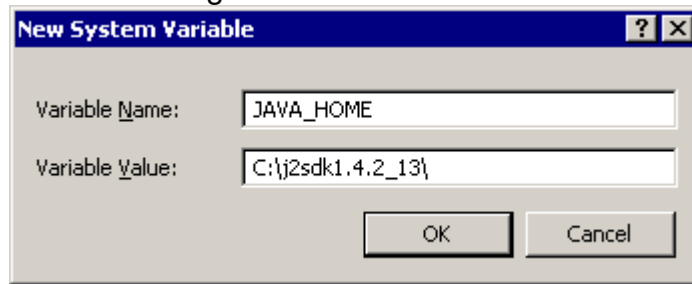


- Press “Install”
- The JDK will start to install. This process will take several minutes.



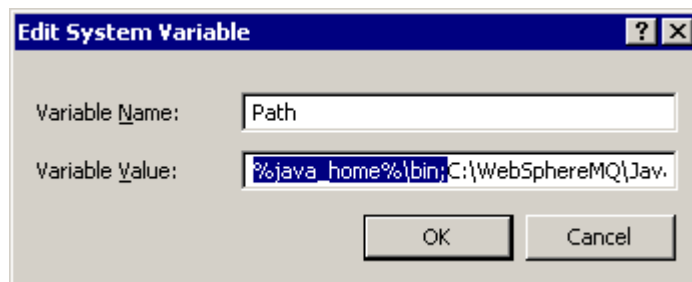
- Press "Finish"

- ❖ Set the JAVA_HOME environment and path variables.
 - Right click on *My Computer* and choose *Properties*
 - Click on the *Advanced Tab*
 - Click on *Environment Variables*
 - Under *System Variables*, click *New...*
 - Enter the following variables



The image shows a Windows dialog box titled "New System Variable". It has a blue title bar with a question mark and a close button. The dialog contains two text input fields. The first field is labeled "Variable Name:" and contains the text "JAVA_HOME". The second field is labeled "Variable Value:" and contains the text "C:\j2sdk1.4.2_13\". At the bottom right of the dialog are two buttons: "OK" and "Cancel".

- Click *OK*
- Under *System Variables*, edit the *Path* variable
- Add the highlighted text to that beginning of the *Path* variable.

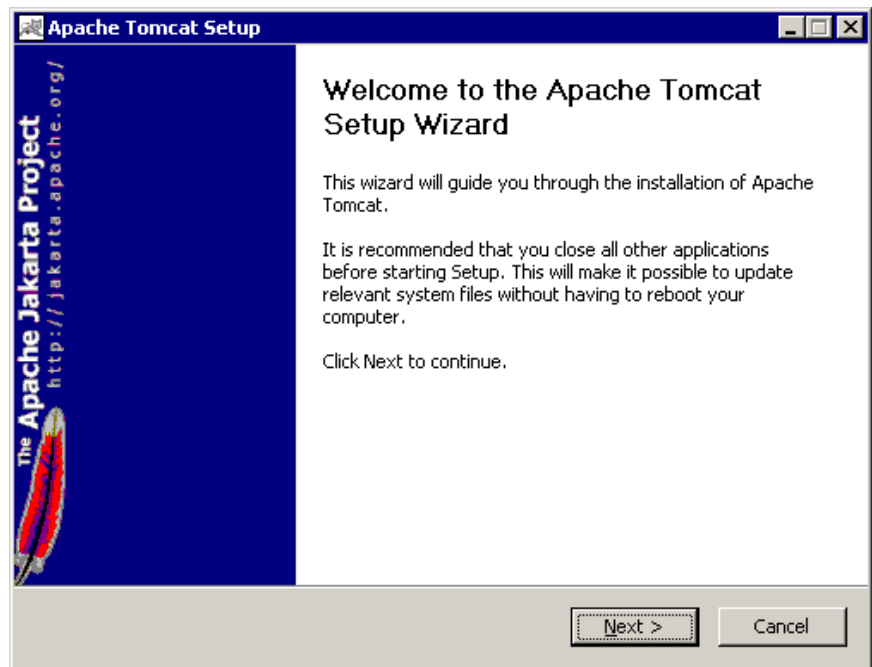


The image shows a Windows dialog box titled "Edit System Variable". It has a blue title bar with a question mark and a close button. The dialog contains two text input fields. The first field is labeled "Variable Name:" and contains the text "Path". The second field is labeled "Variable Value:" and contains the text "%java_home%\bin;C:\WebSphereMQ\Jav.". The text "%java_home%\bin;" is highlighted in blue. At the bottom right of the dialog are two buttons: "OK" and "Cancel".

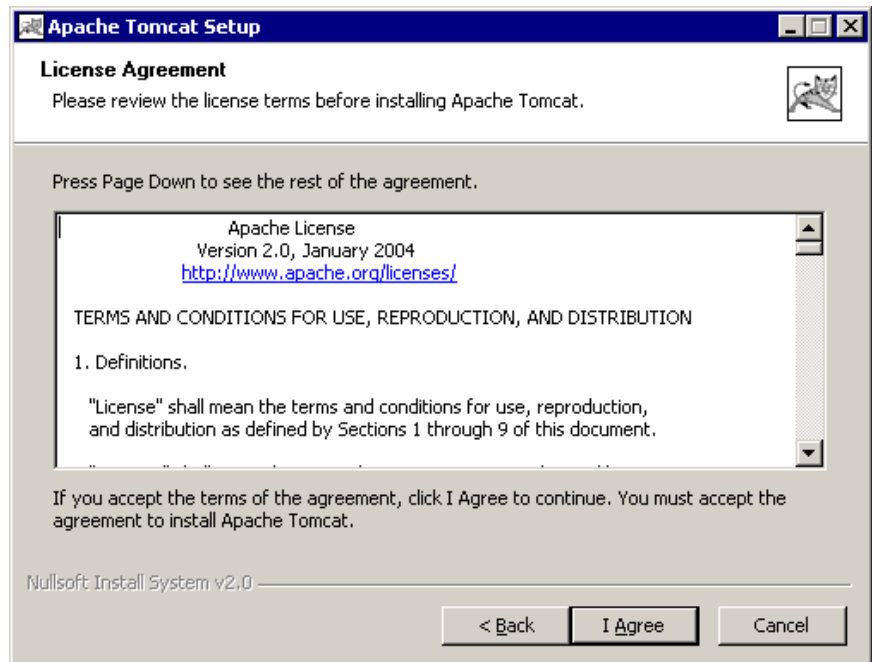
- Verify correct version of JAVA is running
 - Open a command prompt and type in `java -version`. The version should be 1.4.2_13.

Tomcat 5.0

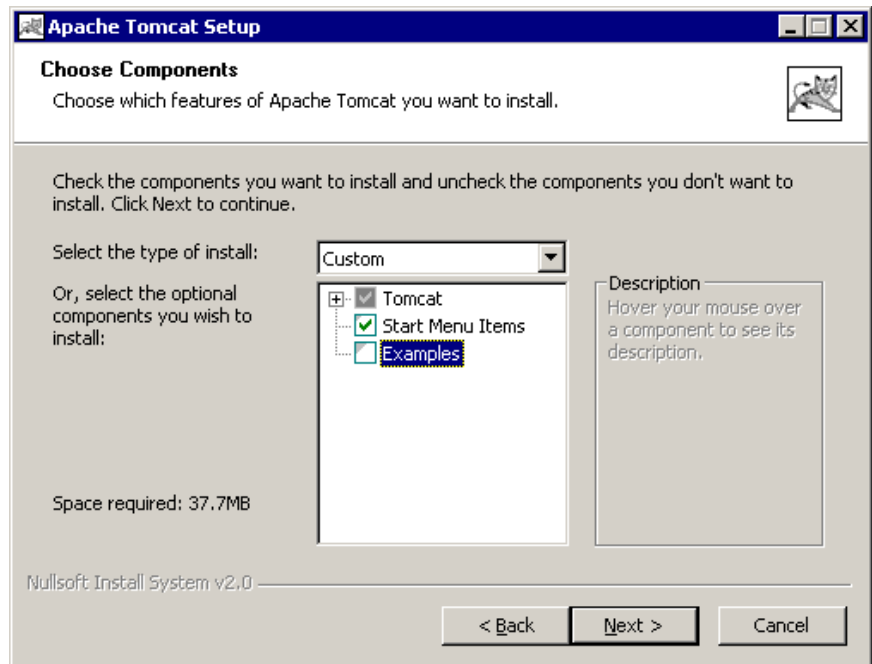
- ❖ Install Tomcat 5.0
 - Run the *jakarta-tomcat-5.0.30.exe* file found in the [Supporting Software\Tomcat 5.0](#) folder of the installation CD.



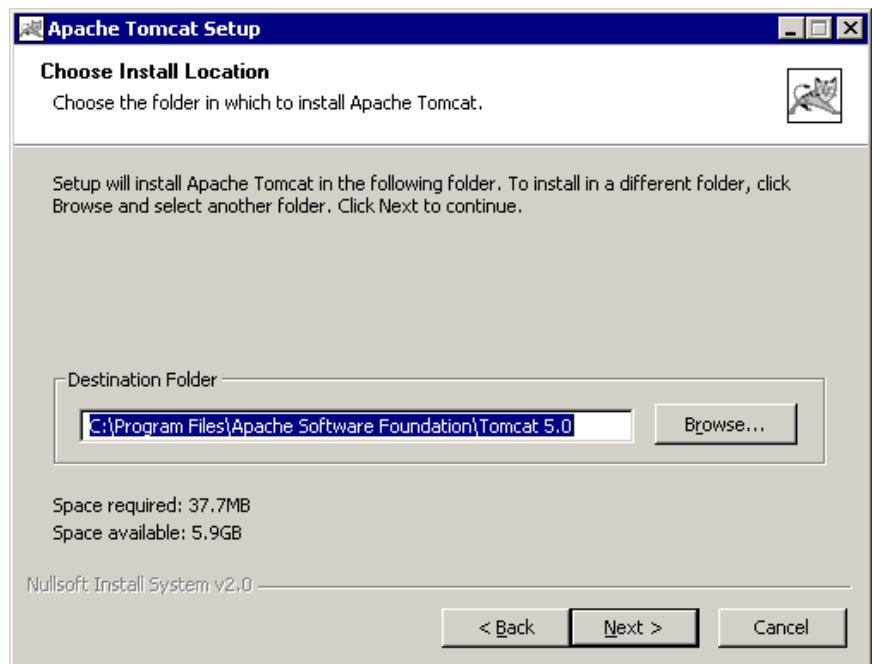
- Click "Next"



- Click "I Agree"



- Uncheck “Examples” to save server space
- Click “Next”



- Click “Next”

Apache Tomcat Setup: Configuration Options

Configuration
Tomcat basic configuration.

HTTP/1.1 Connector Port: 8080

Administrator Login

User Name: admin

Password:

Nullsoft Install System v2.0

< Back Next > Cancel

- Click "Next" (you may enter an admin password if you wish)

Apache Tomcat Setup: Java Virtual Machine path selection

Java Virtual Machine
Java Virtual Machine path selection.

Please select the path of the JVM installed on your system:

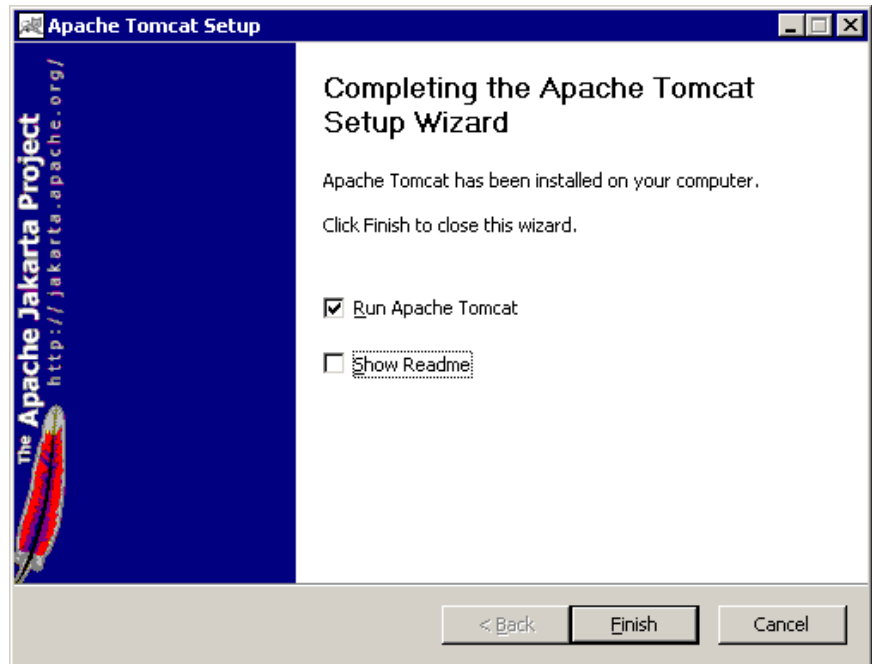
C:\j2sdk1.4.2_13\

Nullsoft Install System v2.0

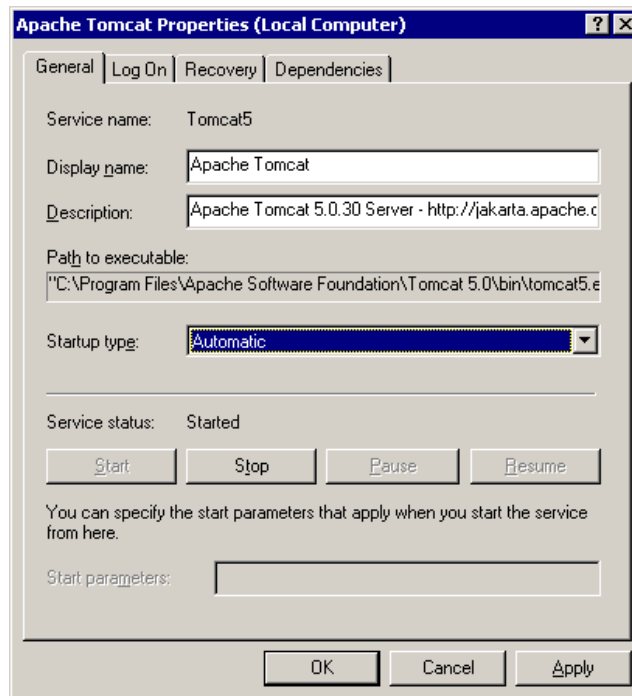
< Back Install Cancel

- Verify the path to the JAVA Virtual Machine (JVM). If you've followed these instructions, you should not have to change this value.
- Click "Install"

- Tomcat will begin the installation process.



- Uncheck "Show Readme"
 - Click "Finish"
- ❖ Modify the Tomcat service to start automatically.
 - Go to *Start -> Run -> Services.msc*
 - Right click on the *Apache Tomcat* service and change the Startup Type to *Automatic*



- ❖ Start the *Apache Tomcat* service.
 - Right click on the *Apache Tomcat* service and choose *Start*.
- ❖ Verify Tomcat is running.
 - Open a browser and go to <http://localhost:8080>.
 - Ensure the Apache Tomcat screen opens successfully:


Cannot find server - Microsoft Internet Explorer

File Edit View Favorites Tools Help


Back Forward Stop Search Favorites Media Print

Address http://localhost:9090/

Links CJIEP CJIEP (TEST) JHLB OMS



Apache Tomcat 5.0.30



The Apache Jakarta Project
http://jakarta.apache.org/

If you're seeing this page via a web browser, it means you've setup Tomcat successfully. Congratulations!

As you may have guessed by now, this is the default Tomcat home page. It can be found on the local filesystem at:

`$CATALINA_HOME/webapps/ROOT/index.jsp`

where "\$CATALINA_HOME" is the root of the Tomcat installation directory. If you're seeing this page, and you don't think you should be, then either you're either a user who has arrived at new installation of Tomcat, or you're an administrator who hasn't got his/her setup quite right. Providing the latter is the case, please refer to the [Tomcat Documentation](#) for more detailed setup and administration information than is found in the INSTALL file.

NOTE: For security reasons, using the administration webapp is restricted to users with role "admin". The manager webapp is restricted to users with role "manager". Users are defined in `$CATALINA_HOME/conf/tomcat-users.xml`.

Included with this release are a host of sample Servlets and JSPs (with associated source code), extensive documentation (including the Servlet 2.4 and JSP 2.0 API JavaDoc), and an introductory guide to developing web applications.

Tomcat mailing lists are available at the Jakarta project web site:

- tomcat-user@jakarta.apache.org for general questions related to configuring and using Tomcat
- tomcat-dev@jakarta.apache.org for developers working on Tomcat

Thanks for using Tomcat!

Administration

- [Status](#)
- [Tomcat Administration](#)
- [Tomcat Manager](#)

Documentation

- [Release Notes](#)
- [Change Log](#)
- [Tomcat Documentation](#)

Tomcat Online

- [Home Page](#)
- [Bug Database](#)
- [Open Bugs](#)
- [Users Mailing List](#)
- [Developers Mailing List](#)
- [IRC](#)


Examples

- [JSP Examples](#)
- [Servlet Examples](#)
- [WebDAV capabilities](#)

Miscellaneous

- [Sun's Java Server Pages Site](#)
- [Sun's Servlet Site](#)

Powered by



TOMCAT

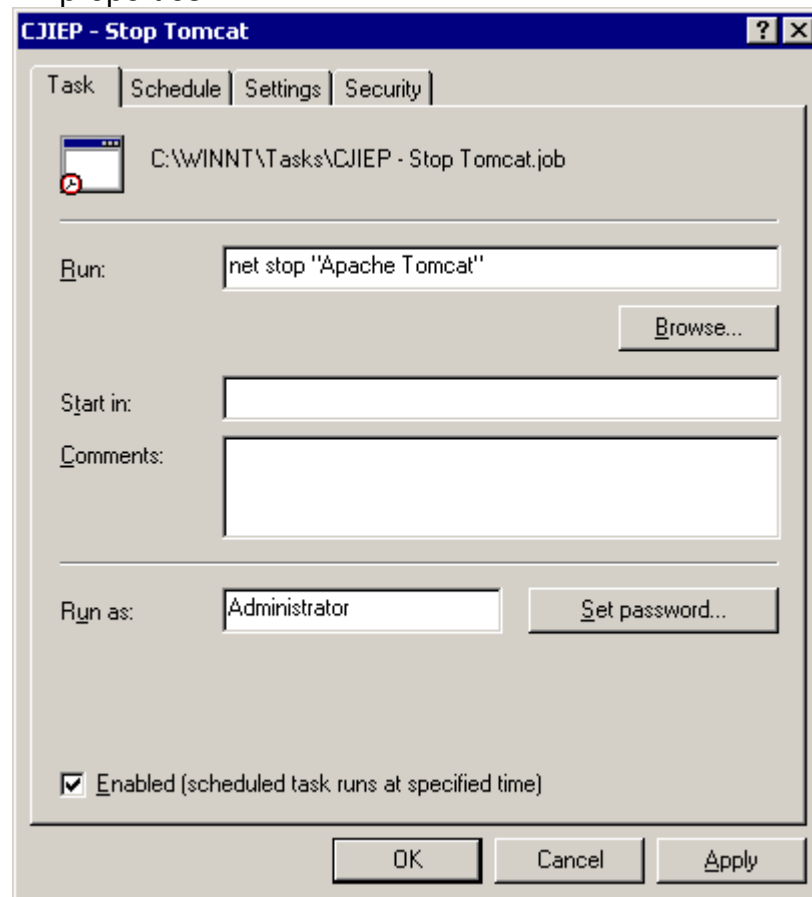
Copyright © 1999-2004 Apache Software Foundation
All Rights Reserved

Done Local intranet

- ❖ Create scheduled tasks to periodically restart Tomcat. This is necessary due to the bridge disconnecting from JNET due to timeouts.

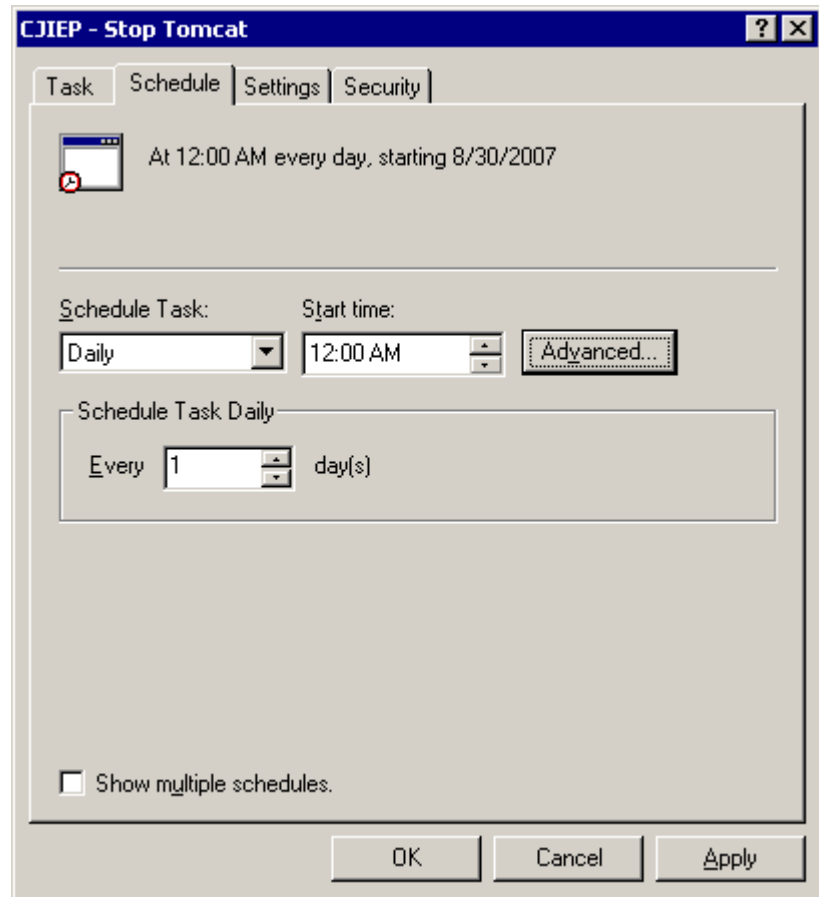
It will be necessary to create a scheduled task to stop Tomcat, and then a second scheduled task will start it.

- ❖ The below steps will create a scheduled task to stop the service every 15 minutes, starting at midnight.
 - Open Control Panel
 - Open "Scheduled Tasks"
 - Click "File"
 - Click "New"
 - Click "Scheduled Task"
 - Name the new scheduled task "CJIEP – Stop Tomcat"
 - Double-click on the scheduled task to open the properties.



- In the "Run" field, type *net stop "Apache Tomcat"*

- In the “Run as” field, enter a username which has permissions to run task on the server. Typically this would be the administrator
- Click on the “Schedule” tab.



- Run the task “Daily” starting at midnight (12:00 AM)

- Click on “Advanced”

Advanced Schedule Options

Start Date: Thursday, August 30, 2007

☐ End Date:

☒ Repeat task

Every: 15 minutes

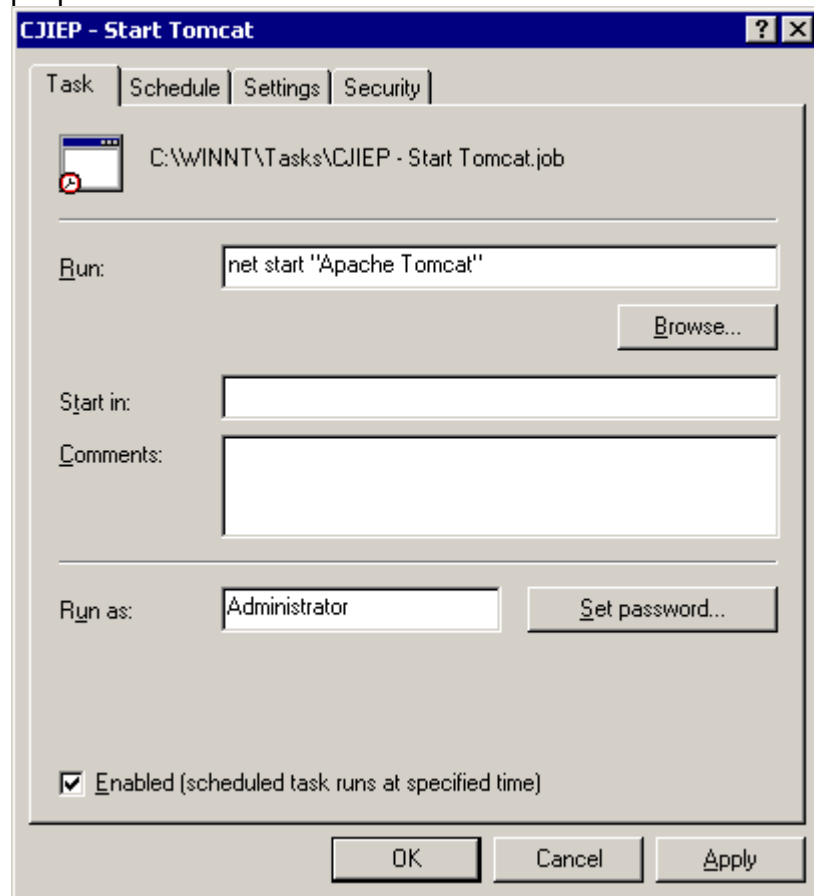
Until: ☐ Time:
☒ Duration: 24 hour(s) minute(s)

☐ If the task is still running, stop it at this time.

OK Cancel

- Check the “Repeat task” checkbox
- Repeat the task every 15 minutes for a duration of 24 hours.
- Click “OK”
- Click “Apply”
- You will be prompted for password which corresponds to the user you chose to run the task as above. Type this in and press “OK”
- Test the scheduled task by right-clicking on the name, and choosing “run”
 - The Apache Tomcat Service should stop, which you can verify by going to Start -> Run and typing in “Services.msc”

- ❖ The scheduled task created above will stop the Apache Tomcat service every 15 minutes starting at midnight. The below steps will now create a similar scheduled task to restart the service one minute later (every 15 minutes starting at 12:01).
 - Open Control Panel
 - Open “Scheduled Tasks”
 - Click “File”
 - Click “New”
 - Click “Scheduled Task”
 - Name the new scheduled task “CJIEP – Start Tomcat”
 - Double-click on the scheduled task to open the properties.



- In the “Run” field, type *net start “Apache Tomcat”*
- In the “Run as” field, enter a username which has permissions to run task on the server. Typically this would be the administrator

- Click on the “Schedule” tab.

The screenshot shows a Windows-style dialog box titled "CJIEP - Start Tomcat". It has four tabs: "Task", "Schedule", "Settings", and "Security". The "Schedule" tab is selected. The main area of the dialog displays the text "At 12:01 PM every day, starting 8/30/2007". Below this, there are two labels: "Schedule Task:" and "Start time:". Under "Schedule Task:", there is a dropdown menu showing "Daily" and a button labeled "Advanced...". Under "Start time:", there is a time selection box showing "12:01 PM". Below these, there is a section titled "Schedule Task Daily" which contains a label "Every" followed by a spinner box set to "1" and the text "day(s)". At the bottom left, there is a checkbox labeled "Show multiple schedules." which is currently unchecked. At the bottom right, there are three buttons: "OK", "Cancel", and "Apply".

- Run the task “Daily” starting at (12:01 AM)

- Click on “Advanced”

Advanced Schedule Options

Start Date: Thursday, August 30, 2007

☐ End Date:

☒ Repeat task

Every: 15 minutes

Until: ☐ Time:
☒ Duration: 24 hour(s) minute(s)

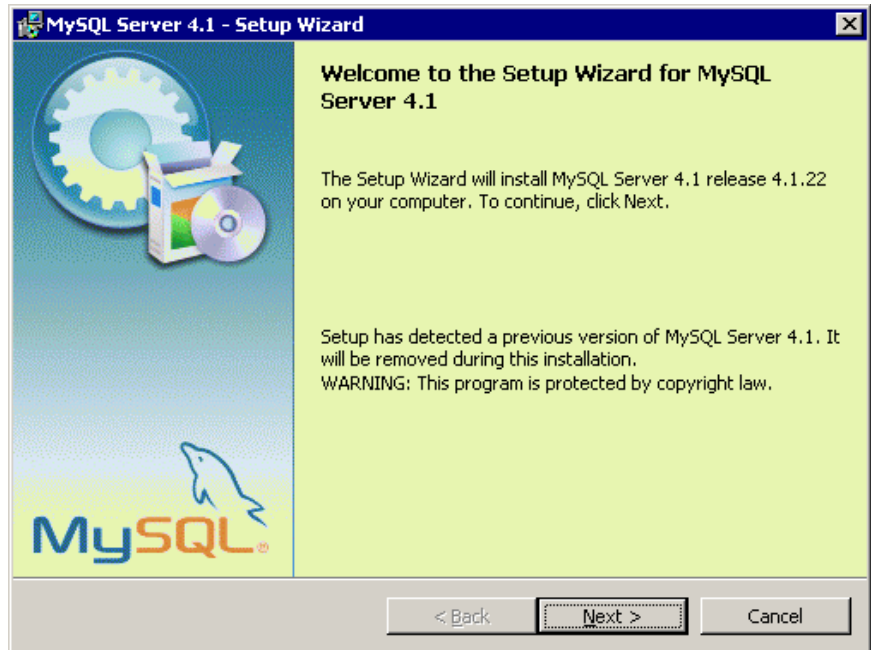
☐ If the task is still running, stop it at this time.

OK Cancel

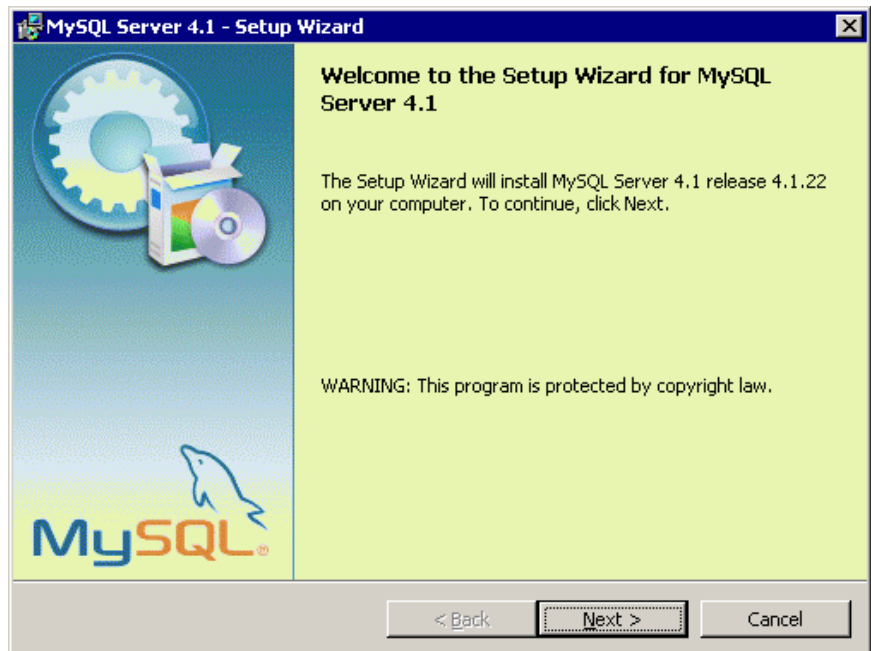
- Check the “Repeat task” checkbox
- Repeat the task every 15 minutes for a duration of 24 hours.
- Click “OK”
- Click “Apply”
- You will be prompted for password which corresponds to the user you chose to run the task as above. Type this in and press “OK”
- Test the scheduled task by right-clicking on the name, and choosing “run”
 - The Apache Tomcat Service should start, which you can verify by going to Start -> Run and typing in “Services.msc”

MySQL 4.1

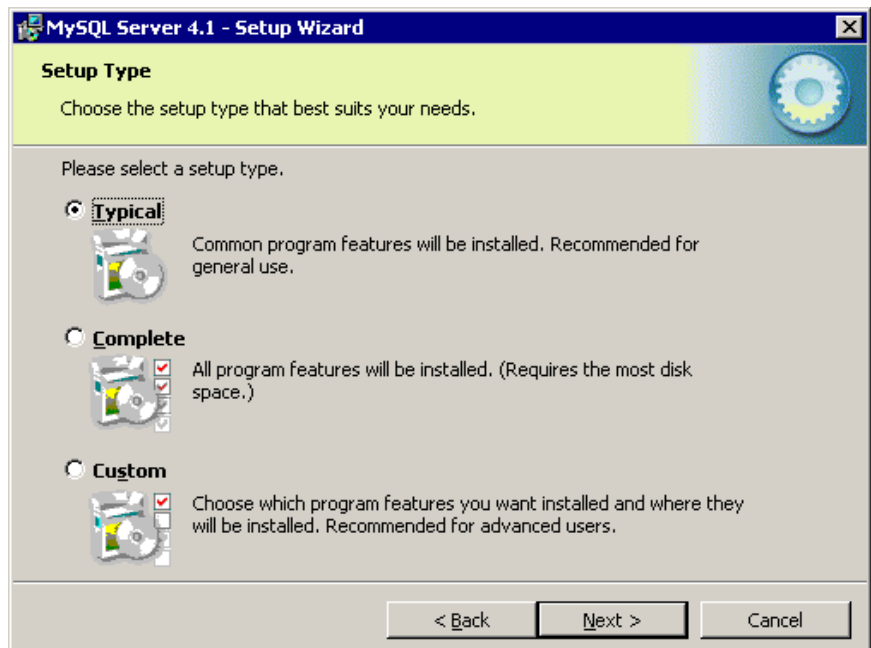
- ❖ Install MySQL 4.1
 - Run the *MySQL 4.1 Setup.exe* file located in the [Supporting Software\MySQL 4.1](#) folder of the installation CD.



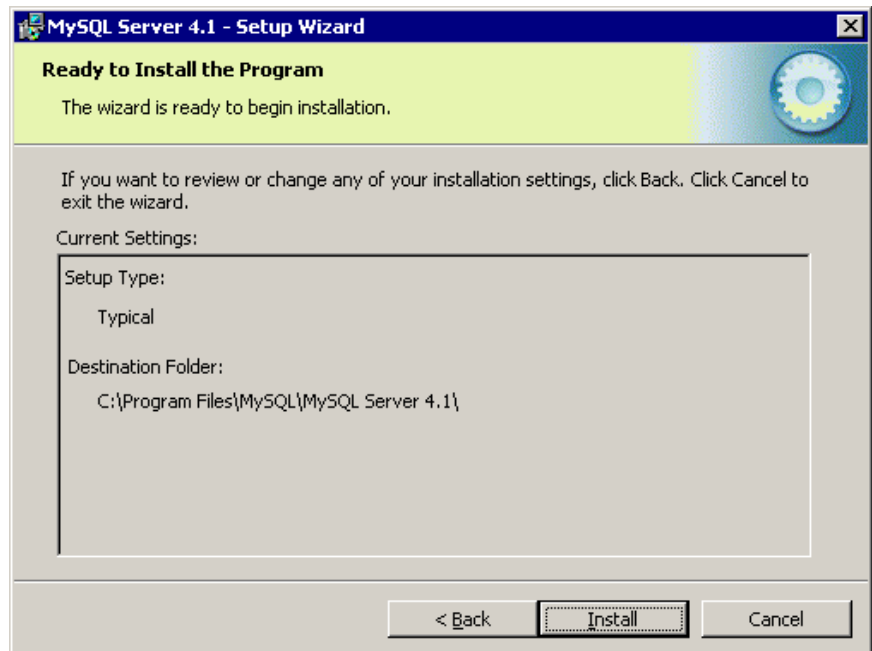
- Press "Next"



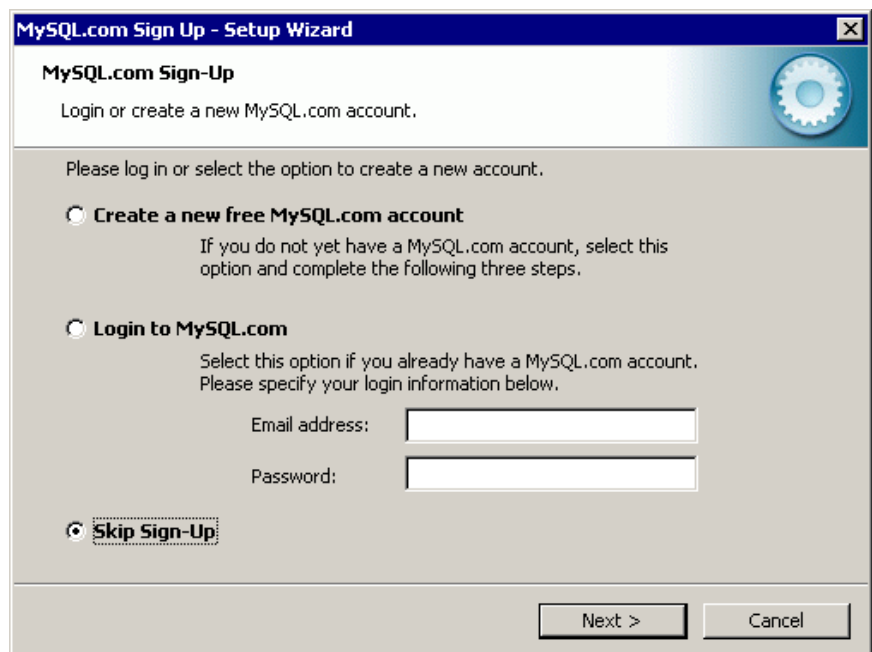
- Press "Next"



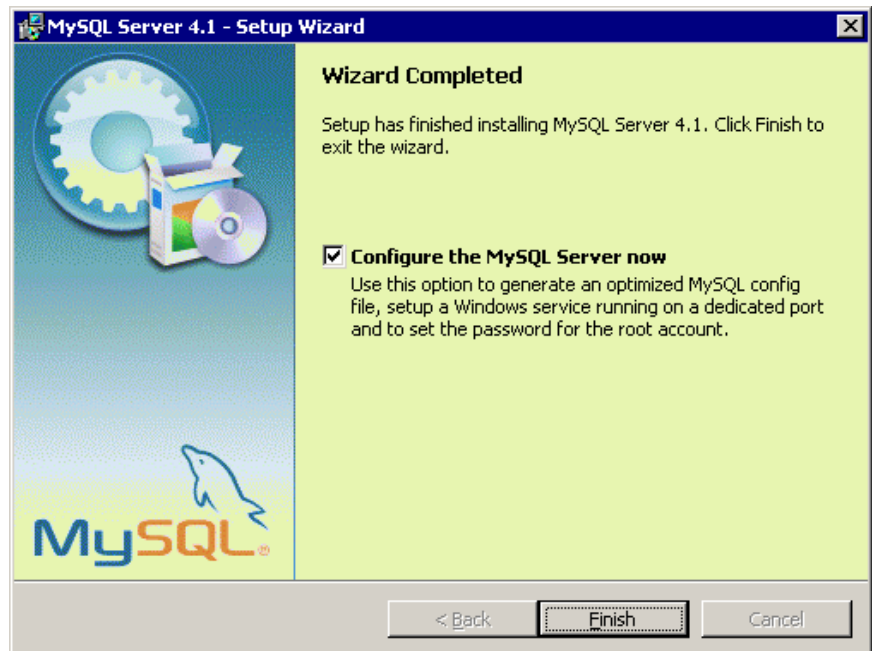
- Ensure "Typical" is checked
- Press "Next"



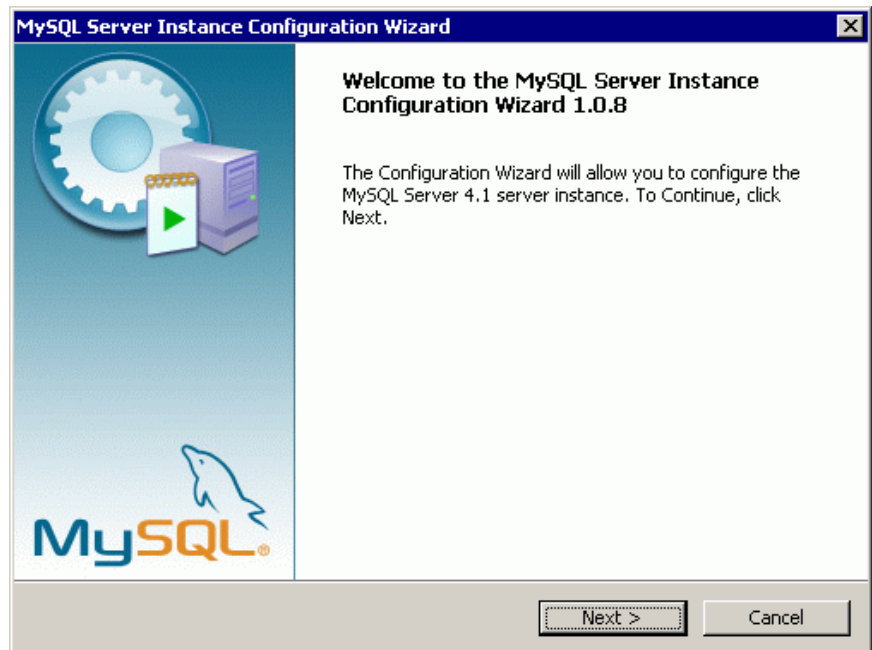
- Press “Install”
- The wizard begins the installation



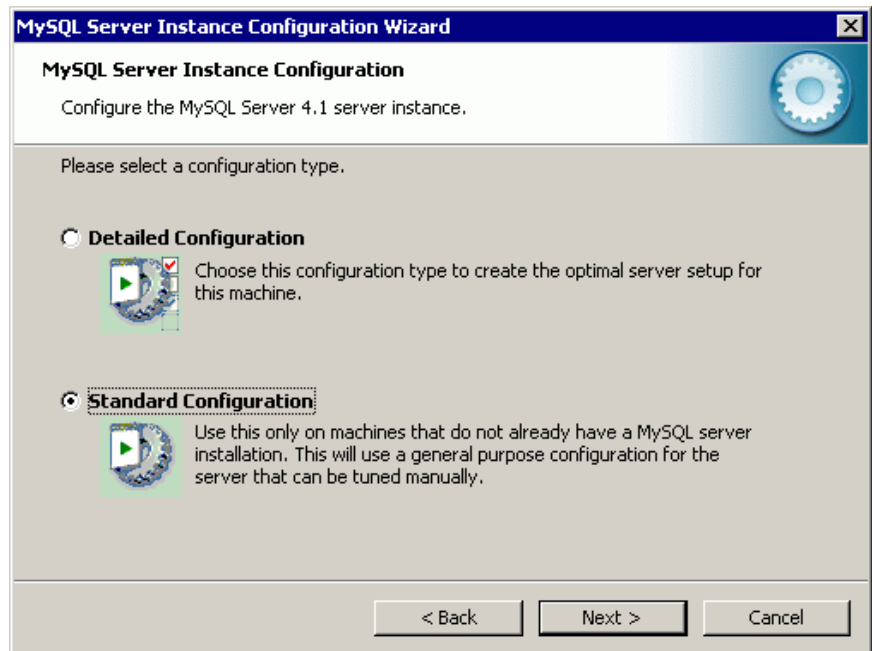
- Check the “Skip Sign-Up” radio button.
- Press “Next”



- Ensure the “Configure the MySQL Server now” checkbox is checked.
- Press “Finish”




- Press “Next”



- Select “Standard Configuration”
- Press “Next”



- Ensure “Install As Windows Service” is checked
- Press “Next”



MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration
Configure the MySQL Server 4.1 server instance.

Please set the security options.

☒ **Modify Security Settings**

 New root password: Enter the root password.

Confirm: Retype the password.

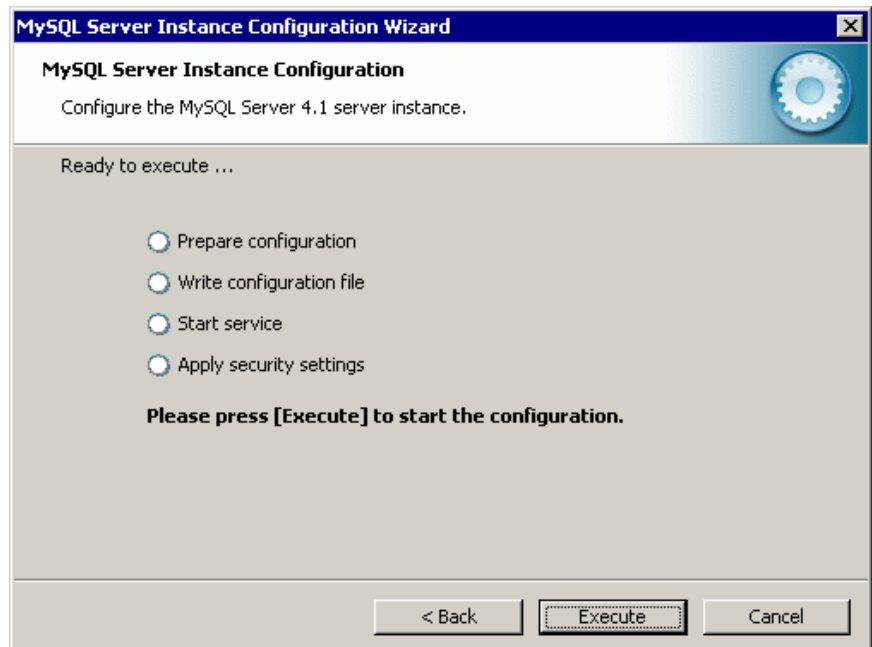
☐ Enable root access from remote machines

☐ Create An Anonymous Account

 This option will create an anonymous account on this server. Please note that this can lead to an insecure system.

< Back Next > Cancel

- Ensure “Modify Security Settings” is checked.
- Choose a root password and retype it in the space provided. **TAKE NOTE OF THE ROOT’S PASSWORD, AS YOU WILL NEED IT LATER!**
- Press “Next”



MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration
Configure the MySQL Server 4.1 server instance.

Ready to execute ...

☐ Prepare configuration

☐ Write configuration file

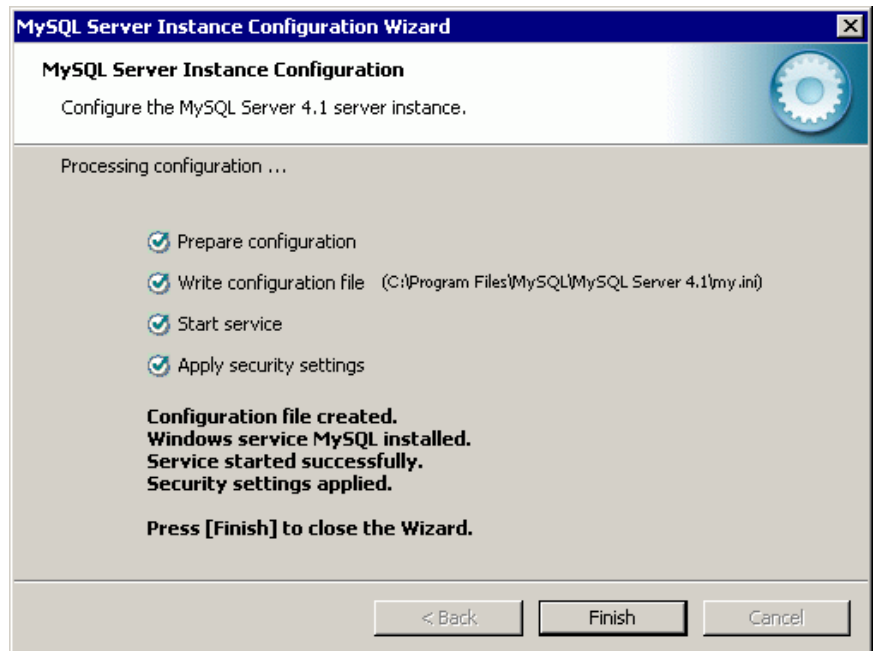
☐ Start service

☐ Apply security settings

Please press [Execute] to start the configuration.

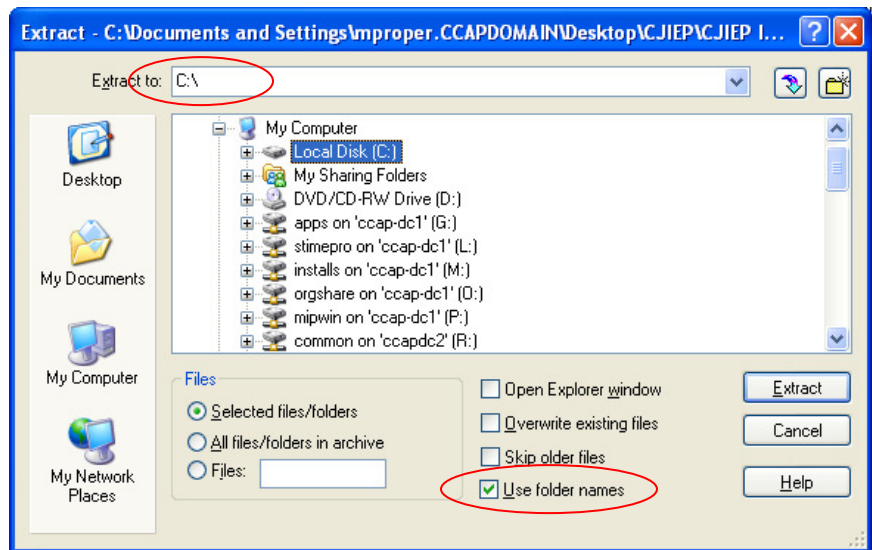
< Back Execute Cancel

- Press “Execute”



- Press “Finish”

- ❖ Install MySQL driver
 - Locate the *mysql-connector-java-3.1.10.zip* file located in the [Supporting Software/MySQL 4.1/MySQL connector](#) folder of the installation CD.
 - Extract the contents of *mysql_connector-java-3.1.10.zip* to the root C: drive. **Ensure that you include folder names when extracting the files:**



- ❖ Copy the *mysql-connector-java-3.1-bin.jar* file from
`c:\mysql-connector-java-3.1.10`
 to
`c:\Program Files\Apache Software Foundation\Tomcat 5.0\common\lib`

jUDDI 0.8.0

❖ Preparation

- Copy the JUDDI folder located at [Supporting Software\jUDDI 0.8.0](#) to C:\

❖ Prepare Apache Tomcat

- Copy the C:\JUDDI\juddi.war file to C:\Program Files\Apache Tomcat Foundation\Tomcat 5.0\webapps\
- Edit C:\Program Files\Apache Tomcat Foundation\Tomcat 5.0\conf\server.xml
 - Copy the code found in C:\JUDDI\juddi_server.xml.txt and paste it into the server.xml file immediately above the closing </Host> tag.
 - By default, JUDDI is installed with a password of 123456. If this needs to be changed, modify the following line in the server.xml file:

```
<parameter><name>password</name><value>123456</value></parameter>
```

❖ Prepare MySQL

- Copy the C:\JUDDI\juddi_mysql.ddl file to C:\Program Files\MySQL\MySQL Server 4.1\bin

❖ Create the jUDDI database

- If changing the default JUDDI password, edit the script located at c:\JUDDI\create_juddi_database.sql and modify the following line:

```
Password = PASSWORD('123456'),
```

- Go to Start -> Programs -> MySQL -> MySQL 4.1 -> MySQL Command Line Client.
- Enter your MySQL root password
- Enter \. **C:\JUDDI\create_juddi_database.sql**
- Press Enter again, and the script will run. Check for any errors. Note that you may see several warnings due to attempted drops of non-existing tables. These warnings can be ignored.

- ❖ If Changing the default JUDDI password, there are two other locations where the value needs to be changed:
 - Edit *C:\Program Files\Apache Software Foundation\Tomcat 5.0\webapps\juddi\WEB-INF\classes\juddi.properties* and modify the following line:


```
juddi.jdbcPassword=123456
```
 - Edit *C:\Program Files\Apache Software Foundation\Tomcat 5.0\webapps\juddi\WEB-INF\classes\juddi.users* and modify the following line:


```
<user userid="juddi" password="123456" />
```
- ❖ Check your work
 - Restart the *Apache Tomcat* service.
 - Open a browser and navigate to <http://localhost:8080/juddi>
 - Click on “Validate” and scroll for errors noted in red.
 - If you see any errors in your jUDDI installation, rework these instructions.
- ❖ Cleanup
 - If jUDDI is installed and working correctly, it is safe to delete the *C:\JUDDI* directory.

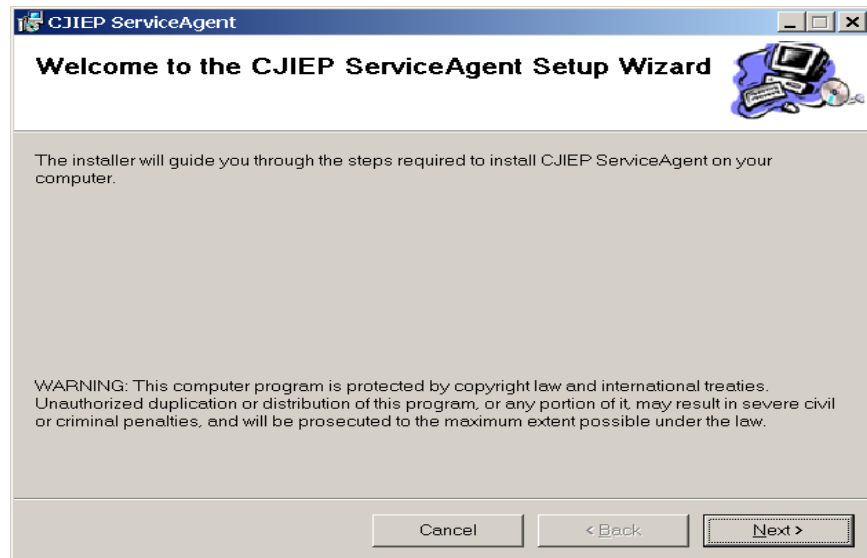
III. INSTALLATION OF SERVICE AGENT

Introduction

This chapter outlines the steps required to setup and configure the Service Agent Component which will distribute the Court Case Event Messages to the web services.

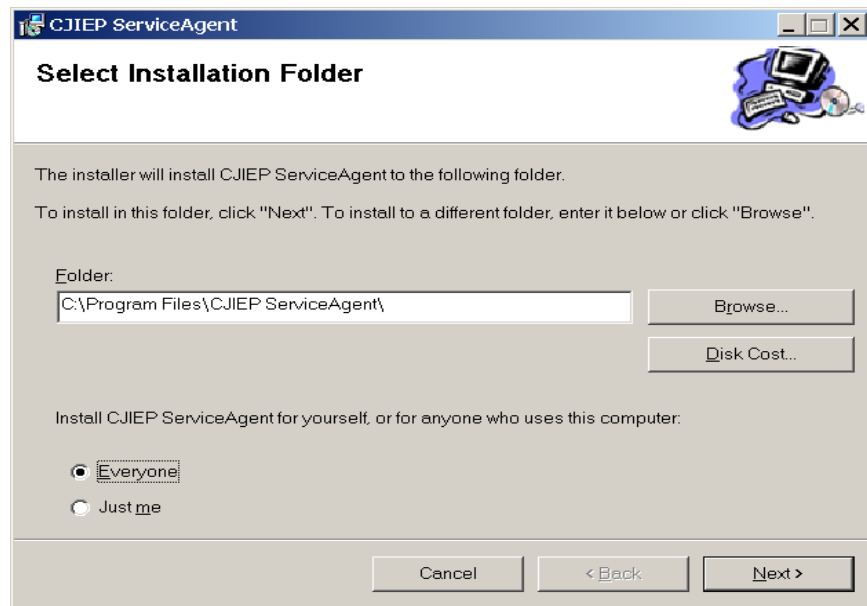
Installation Steps

- ❖ Run the ServiceAgentSetup.msi file located in the [Installation – ServiceAgent](#) folder of the installation CD.



- ❖ Press “Next”

- ❖ In the next window, select the installation directory where you would like the Service Agent to be installed and also select the radio button next to “Everyone” at the bottom of the following screen:



- ❖ Press “Next”

- ❖ You will now be presented with the “County Identification” screen. Enter the Jurisdiction and County Code values used for the <PartyId> element exactly as it appears in the AOPC Court Case Event Message. These values are used to filter out messages not meant for this county. These values can be obtained from AOPC or from their website at <http://www.aopc.org/Index/CommonPleas/JudicialDistricts.asp>

CJIEP ServiceAgent

County Identification

Enter County and Jurisdiction Identification Information (Contact county JNET Administrator)

Jurisdiction :
37

County Code:
62

Cancel < Back Next >

- ❖ Press “Next”

- ❖ The next screen is the “UDDI Configuration” screen. On the configuration screen, **change the password to “123456”**. If jUDDI was installed on a different server and/or port number or with a different user name and password, modify these values appropriately.

CJIEP ServiceAgent

UDDI Configuration

Configure UDDI location and credentials

Inquiry URL:

Publish URL:

User:

Password:

Cancel < Back Next >

- ❖ Press “Next”

- ❖ The next screen will specify logging.
 - It is recommended that the logging level be set to “1” (full logging). This value can be changed to a “4” if full logging is not necessary. After the install, this value is contained in the *c:\Program Files\CJIEP ServiceAgent\ServiceAgent.exe.config* file in the following section:


```
<switches>
          <add name="ServiceAgent" value="1" />
          </switches>
```
 - Specify where you want the logging file to reside

CJIEP ServiceAgent

Logging

Configure logging information

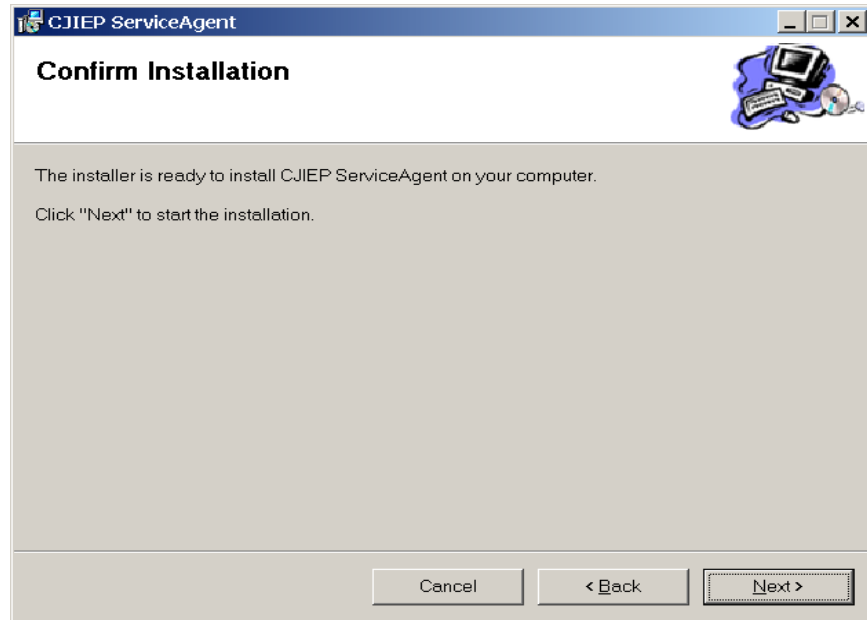
Logging Level:
1

Log file location:
c:\ServiceAgent.log

Cancel < Back Next >

- ❖ Press “Next”

- ❖ You will now be presented with the “Confirmation” screen shown below.



- ❖ Press “Next”
- ❖ Press “Close” on the final window and the Service Agent installer will run.
- ❖ Stop the *CJIEP ServiceAgent* service
 - Start Go to *Start -> Run -> Services.msc*
 - Right-Click on the *CJIEP ServiceAgent* service and press “Stop”
- ❖ Modify Service Agent
 - Copy the *ServiceAgent.exe.config* file from the [Installation – ServiceAgent](#) directory of the Installation CD to *C:\Program Files\CJIEP Serviceagent*
 - Edit the *C:\Program Files\CJIEP Serviceagent\ServiceAgent.exe.config* file and modify the following elements:
 - <CountyID> **YOUR COUNTY ID** </CountyID>
 - <JurisdictionID> **YOUR JURISDICTION ID** </JurisdictionID>
 - It may also be necessary to modify the following element if jUDDI is installed on a different port than 8080.
 - <UDDI_URL>http://localhost:8080/juddi/inquiry</UDDI_URL>
- ❖ Restart the *CJIEP ServiceAgent* service.

IV. INSTALLATION OF BRIDGE COMPONENT

Introduction

This chapter outlines the steps required to setup and configure the CJIEP Bridge Component that will make the connection to the JNET queue to receive AOPC's court case event messages.

Installation Steps

- ❖ Copy the file *cjiep.bridge.1.0.war*, which is located in the [Installation – JNET Bridge](#) directory, to *C:\Program Files\Apache Software Foundation\Tomcat 5.0\webapps*
- ❖ Restart the Tomcat Service
 - Start -> Run -> services.msc
 - Right click on the *Apache Tomcat* service and choose *restart*
- ❖ Locate the *2007-04-30 Updated Jar Files LIB.zip* file located in the [Installation – JNET Bridge](#) folder of the installation CD.
 - Unzip all files to *C:\Program Files\Apache Software Foundation\Tomcat 5.0\webapps\cjiep.bridge.1.0\WEB-INF\lib* directory, replacing any existing ones.
- ❖ Locate the *2007-06-04 Updated Jar Files ENDORSED.zip* file located in the [Installation – JNET Bridge](#) folder of the installation CD.
 - Unzip all files to *C:\Program Files\Apache Software Foundation\Tomcat 5.0\common\endorsed* directory, replacing any existing ones.
- ❖ Restart the Tomcat Service
 - Start -> Run -> services.msc
 - Right click on the *Apache Tomcat* service and choose *restart*

- ❖ Edit *C:\Program Files\Apache Software Foundation\Tomcat 5.0\webapps\cjiebridge.1.0\WEB-INF\classes\config.xml*
 - Locate the `<ProducerProperties>` element within the `<JNETtoCJIEPBridge>` element
 - Edit the following elements with information provided by JNET. As of this writing, the contact at JNET is Craig Barnhart (c-cbarnhar@state.pa.us).

`<Property key="topic.connector.mq.hostname">JNET PROVIDED IP ADDRESS</Property>`
`<Property key="topic.connector.mq.port">JNET PROVIDED PORT NUMBER</Property>`
`<Property key="topic.connector.mq.queuemanager">JNET PROVIDED QUEUE NAME</Property>`

- Locate the `<ConsumerProperties>` element within the `<JNETtoCJIEPBridge>` element
- If the Service Agent was installed to a different location than the default, it will also be necessary to edit the following element to point to the *InMessages* folder where the CJIEP Service Agent is installed.

`<Property key="consumer.file.directory">C:\Program Files\CJIEP ServiceAgent\InMessages</Property>`

- ❖ Restart the Tomcat Service
 - Start -> Run -> services.msc
 - Right click on the *Apache Tomcat* service and choose *restart*
- ❖ At this point the county should be able to receive messages from AOPC. The county will need to coordinate testing with AOPC and JNET to test.
 - AOPC Contact:
 - Mark Whitworth (Mark.Whitworth@pacourts.us)
 - JNET Contact:
 - Craig Barnhart (c-cbarnhar@state.pa.us)
 - Contact JNET and ensure they see a durable subscriber created and listening on the queue.
 - Stop the CJIEP ServiceAgentService
 - Start -> Run -> services.msc
 - Right click on the *CJIEP ServiceAgent* service and choose *stop*
 - Have AOPC send a handful of test messages to the county.
 - The messages should appear in the *C:\Program Files\CJIEP ServiceAgent\InMessages* folder.

V. INSTALLATION OF WEB SERVICES AND GUI

Introduction

This chapter outlines the steps required to install and configure the web services, which will process the messages and populate the data into the legacy systems. This chapter will also set up and configure the User Acceptance Module, or GUI interface.

All of the components needed for this installation are located in the [Installation – Web Services](#) folder of the installation CD.

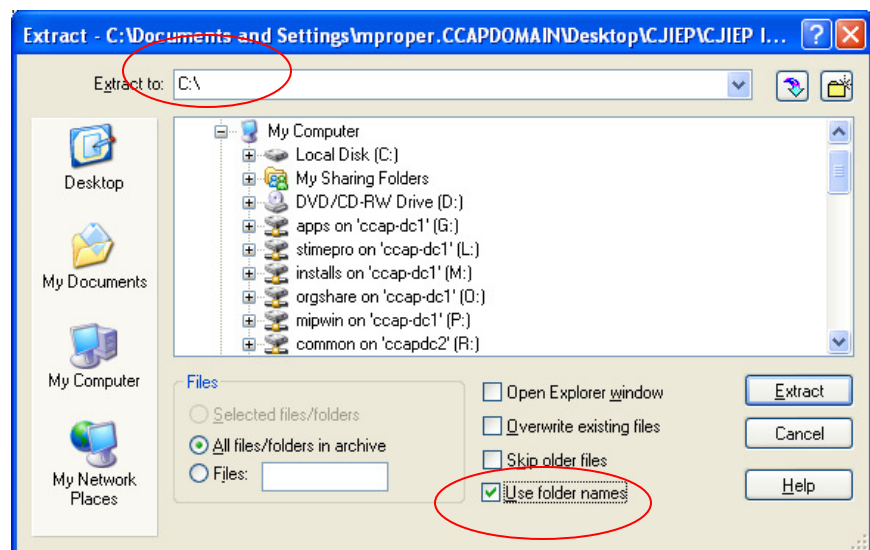
Preparation

- ❖ Copy the *CJIEP-Temp* folder located in the [Installation – Web Services](#) folder of the installation CD to the root C:\.

JBOSS Installation

- ❖ Locate the *JBOSS-3.2.6.zip* located in the *C:\CJIEP-Temp* folder.
 - Extract the contents of this file to C:\

Ensure that you include folder names when extracting the files:



- ❖ Port Configuration (optional)
 - The default JBOSS installation is configured to run on port 8081. If there is another application using this port, JBoss can be reconfigured to run on a different port. The places that the port number needs to be changed are:
 - `C:\jboss-3.2.6\server\all\deploy\jbossweb-tomcat50.sar\server.xml`
 - `C:\jboss-3.2.6\server\all\deploy\http-invoker.sar\META-INF\jboss-service.xml`
- ❖ Configure JBOSS to run as a service.
 - Open a command window.
 - Change the directory to `C:\jboss-3.2.6\bin\`
 - Copy the command contained in the file `C:\CJIEP-Temp\Jboss-Service.txt` and paste it into the command window (click on the symbol in the upper-left, then edit -> paste)
 - NOTE: Assuming you have followed these instructions, no changes will need to be made to the command. However if JAVA or JBOSS have been installed at different directories, or if a different version of JAVA has been used, changes may need to be made.
 - Test your work
 - Start -> Run -> Services.msc
 - Ensure there is a service called *JBOSS-CJIEP* and it is started.
 - If the service is not started, and it will not start:
 - Uninstall the service by running the following at the command prompt:
 - `JBossService.exe -uninstall JBOSS-CJIEP`
 - Check the command used above to ensure all versions and paths are correct.
 - Reinstall the service by following the above instructions.
 - NOTE: When restarting the JBOSS service, it can take up to 1 minute for it to start completely.

Create CJIEP Database

- ❖ Create a CJIEP User
 - Open SQL Plus
 - The path may vary, depending on the version of the Oracle Client, but it should be similar to, *Start -> Programs -> Oracle -> Application Development -> SQL Plus*
 - Login as a user with Admin access.
 - From the SQL command prompt, type:
`@C:\CJIEP-Temp\CJIEPUserCreate.sql;`

```

D:\oracle\ora92\bin\sqlplus.exe

SQL*Plus: Release 9.2.0.1.0 - Production on Wed Aug 29 15:06:39 2007
Copyright (c) 1982, 2002, Oracle Corporation. All rights reserved.

Enter user-name: cjiem
Enter password:

Connected to:
Oracle9i Release 9.2.0.1.0 - Production
JServer Release 9.2.0.1.0 - Production

SQL> @C:\CJIEP-Temp\CJIEPUserCreate.sql;_
  
```

- Press “Enter” and check for errors.
- Close the window

- ❖ Create the CJIEP database
 - If JBOSS was installed on a port other than the default (port 8081).
 - Edit *C:\CJIEP-Temp\CJIEPFullCreate.sql*.
 - Do a search/replace and change 8081 to the port number that JBOSS was installed on.
 - Save and close the file.
 - Connect to the CJIEP user that was created above.
 - Open SQL Plus
 - username: CJIEP
 - password: CJIEP
 - From the SQL command prompt, type:
@C:\CJIEP-Temp\CJIEPFullCreate.sql;

```

D:\oracle\ora92\bin\sqlplus.exe

SQL*Plus: Release 9.2.0.1.0 - Production on Wed Aug 29 15:06:39 2007
Copyright (c) 1982, 2002, Oracle Corporation. All rights reserved.
Enter user-name: cjiep
Enter password:
Connected to:
Oracle9i Release 9.2.0.1.0 - Production
JServer Release 9.2.0.1.0 - Production
SQL> @C:\CJIEP-Temp\CJIEPFullCreate.sql;
  
```

- Press “Enter” and check for errors. Any messages pertaining to tables or indexes not existing may be ignored (the script first tries to drop any existing tables).
- Close the window

Create Adult Probation Package

- ❖ **ONLY NECESSARY IF THE COUNTY HAS THE DSI ADULT PROBATION SYSTEM. OTHERWISE, THIS STEP CAN BE SKIPPED.**
- ❖ Create the AP Package
 - Open SQL Plus
 - Login as the adult probation user. DSI typically installs the system with the following username and password, but it may vary from county to county and may be different for the test system as opposed to the production system.
 - username: AP
 - password: AP
 - From the SQL command prompt, type:
`@C:\CJIEP-Temp\CJIEPAPCreate.sql;`

```
D:\oracle\ora92\bin\sqlplus.exe

SQL*Plus: Release 9.2.0.1.0 - Production on Fri Sep 14 10:47:52 2007
Copyright (c) 1982, 2002, Oracle Corporation. All rights reserved.

Enter user-name: AP
Enter password:

Connected to:
Oracle9i Release 9.2.0.1.0 - Production
JServer Release 9.2.0.1.0 - Production

SQL> @C:\CJIEP-Temp\CJIEPAPCreate.sql;_
```

- Press “Enter” and check for errors.
- Close the window

Modify DA system

- ❖ **ONLY NECESSARY IF THE COUNTY HAS THE DSI DA (PMS). OTHERWISE, THIS STEP CAN BE SKIPPED.**
- ❖ Run the DA Script
 - Open SQL Plus
 - Login as the DA user. DSI typically installs the system with the following username and password, but it may vary from county to county and may be different for the test system as opposed to the production system.
 - username: CDI
 - password: CDI
 - From the SQL command prompt, type:
@C:\CJIEP-Temp\DA_system_updates.sql;

```

D:\oracle\ora92\bin\SQLplus.exe

SQL*Plus: Release 9.2.0.1.0 - Production on Wed Mar 5 14:13:42 2008
Copyright (c) 1982, 2002, Oracle Corporation. All rights reserved.

Enter user-name: CDI
Enter password:

Connected to:
Oracle9i Release 9.2.0.1.0 - Production
JServer Release 9.2.0.1.0 - Production
SQL> @c:\CJIEP-Temp\DA_system_updates.sql;_
  
```

- Press “Enter” and check for errors.
- Close the window

Configure Database Connections

There are several files that need to be configured to connect to the databases. Depending on the systems used at the county, not all connections may be needed.

- *oracle-ds.xml* – Connection to the CJIEP database created above (required).
- *da-oracle-ds.xml* – Connection to legacy DA
- *oms-oracle-ds.xml* – Connection to legacy OMS
- *prob-oracle-ds.xml* – Connection to legacy AP

- ❖ Edit *C:\jboss-3.2.6\server\all\deploy\oracle-ds.xml*
 - Modify the following elements:

`<connection-url>jdbc:oracle:thin:@SERVER NAME:1521:TNS NAME</connection-url>`

- The TNS Name can be found in the *tnsnames.ora* file, which is on the Oracle server in a location similar to (depending on the Oracle version) *c:\oracle\ora92\network\admin*
 - There will be an entry similar to the following. The TNS name is the **SERVICE_NAME**

```
ORCL =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCP)(HOST = ccap-
        biztalk)(PORT = 1521))
    )
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = ORCL)
    )
  )
```

- ❖ Edit *C:\jboss-3.2.6\server\all\deploy\da-oracle-ds.xml*
 - Modify the following elements:

`<connection-url>jdbc:oracle:thin:@SERVER NAME:1521:TNS NAME</connection-url>`
`<user-name>DA SYSTEM USER NAME</user-name>`
`<password>DA SYSTEM USER PASSWORD</password>`

- ❖ Repeat the above step for
 - *C:\jboss-3.2.6\server\all\deploy\oms-oracle-ds.xml*
 - *C:\jboss-3.2.6\server\all\deploy\prob-oracle-ds.xml*

Email Configuration (Optional)

The system can be configured to send an email notification of the message counts awaiting manual approval.

- ❖ Edit *C:\jboss-3.2.6\server\all\conf\properties\CJIEP.Properties*
 - Modify the following sections:
 - messageReportFromEmailAddress
 - Email address that the email notification will be from.
 - messageReportToEmailAddresses
 - Email address to send the notification to. To send to multiple people, separate email addresses with a comma.
 - messageReportEmailBody
 - The body of the email. This section contains a server URL for the login message that will need to be changed to reflect the server name.
- ❖ Edit *C:\jboss-3.2.6\server\all\conf\properties>EmailConfig.properties*
 - Modify the following sections:
 - mail.smtp.host
 - The name of the SMTP server to use
 - mail.smtp.user
 - The user id of the email account used to send the email
 - mail.smtp.password
 - The password for the email account being used to send the email
- ❖ Edit *C:\jboss-3.2.6\server\all\deploy\emailscheduler-service.xml*
 - Modify the following section:
 - InitialStartDate
 - Enter a valid date in this field. The scheduler will calculate occurrences based on the date/time entered. For example "03/01/2006 8:00 am" will cause emails to be sent at 8:00.
 - SchedulePeriod
 - This variable determines the time between emails and is stored in milliseconds. 24 hours is equivalent to 86400000 milliseconds. This can be adjusted if the user wants to receive emails more frequently than once per day.

NOTE: Initially set this value to 60000 to test. Restart JBOSS and an email should be received every 1 minute. Once it is determined to be working correctly, reset it to the desired value and restart JBOSS.

Register the Web Services in the UDDI

In order for the consuming application to be able to find the web services, they need to be registered. Each installation will have a different location for the web service and the location will be determined by the server the application is installed on.

- ❖ Open a web browser
- ❖ Go to <http://localhost:8081/cjiep/services>
 - (if JBOSS was configured on a port other than 8081, substitute it in the address)
- ❖ On the web services page, click on the wsdl link to see the web services wsdl.
 - The field containing the address is: <wsdlsoap:address location= >. This is the address that needs to be registered in the UDDI.
- ❖ Edit *C:\Program Files\CJIEP ServiceAgent\ServiceRegistrar.exe.config*
 - Locate the <Services> element
 - Set the accessPoint and wsdlLocation attributes by copying/pasting the URL from the web services page.
 - Example
 - (Please note that you do not need the .jws extension):

```
<Service name="CJIEP_4_66_07_BindCaseOverService"
  accessPoint="http://localhost:8081/cjiep/services/CJIEP_4_66_07_BindCaseOver"
  wsdlLocation="http://localhost:8081/cjiep/services/CJIEP_4_66_07_BindCaseOver?wsdl"
  tModelName="CJIEP_4_66_07_BindCaseOverServiceInterface" />
```

- ❖ Repeat the above for each service, and close/save the *ServiceRegistrar.exe.config* file.
- ❖ Open a command window.
 - Change to the *C:\Program Files\CJIEP ServiceAgent* directory.
 - Type the following command to execute the registrator utility. This will place the configured URLs into the jUDDI repository.
 - *ServiceRegistrar.exe*
- ❖ If it becomes necessary to update the existing registry values, you must unregister the existing values before running the program again.
 - Type the following command:
 - *ServiceRegistrar.exe /d*

VI. CONFIGURING FOR PRODUCTION

Overview

Once testing is complete, there are several things that need to be done to configure the system for production.

Notify JNET

- ❖ JNET needs a minimum of a week's notice prior to a go-live date, and has expressed a preference that a Wednesday would be a preferred day.

Connect to the JNET Production Queue

- ❖ Stop the *CJIEP ServiceAgent* and *JBOSS-CJIEP Services*
- ❖ Edit *C:\Program Files\Apache Software Foundation\Tomcat 5.0\webapps\cjiep.bridge.1.0\WEB-INF\classes\config.xml*
 - Locate the *<ProducerProperties>* element within the *<JNETtoCJIEPBridge>* element
 - Edit the following elements with information provided by JNET. As of this writing, the contact at JNET is Craig Barnhart (c-cbarnhar@state.pa.us).

```
<Property key="topic.connector.mq.hostname">JNET PROVIDED IP ADDRESS</Property>
<Property key="topic.connector.mq.port">JNET PROVIDED PORT NUMBER</Property>
<Property key="topic.connector.mq.queuemanager">JNET PROVIDED QUEUE NAME</Property>
```

- ❖ Restart the Apache Tomcat Service.
- ❖ Verify messages are being received at *c:\Program Files\CJIEP ServiceAgent\InMessages*.

Configure Legacy System Connections

- ❖ Edit *C:\jboss-3.2.6\server\all\deploy\da-oracle-ds.xml*
 - Modify the following elements:

```
<connection-url>jdbc:oracle:thin:@SERVER NAME:1521:TNS NAME</connection-url>
<user-name>DA SYSTEM USER NAME</user-name>
<password>DA SYSTEM USER PASSWORD</password>
```

- Repeat the above step for
 - *C:\jboss-3.2.6\server\all\deploy\oms-oracle-ds.xml*
 - *C:\jboss-3.2.6\server\all\deploy\prob-oracle-ds.xml*

Create Adult Probation Package

- ❖ Open SQL Plus
 - Login as the adult probation user. DSI typically installs the system with the following username and password, but it may vary from county to county.
 - username: AP
 - password: AP
 - From the SQL command prompt, type:
@C:\CJIEP-Temp\CJIEPAPCreate.sql;

```

D:\oracle\ora92\bin\sqlplus.exe

SQL*Plus: Release 9.2.0.1.0 - Production on Fri Sep 14 10:47:52 2007
Copyright (c) 1982, 2002, Oracle Corporation. All rights reserved.

Enter user-name: AP
Enter password:

Connected to:
Oracle9i Release 9.2.0.1.0 - Production
JServer Release 9.2.0.1.0 - Production

SQL> @C:\CJIEP-Temp\CJIEPAPCreate.sql;_
  
```

- Press “Enter” and check for errors.
 - Close the window
- ❖ Start the following services:
 - CJIEP ServiceAgent
 - JBOSS-CJIEP

Modify DA system

- ❖ **ONLY NECESSARY IF THE COUNTY HAS THE DSI DA (PMS). OTHERWISE, THIS STEP CAN BE SKIPPED.**
- ❖ Run the DA Script
 - Open SQL Plus
 - Login as the DA user. DSI typically installs the system with the following username and password, but it may vary from county to county and may be different for the test system as opposed to the production system.
 - username: CDI
 - password: CDI
 - From the SQL command prompt, type:
@C:\CJIEP-Temp\DA_system_updates.sql;

```

D:\oracle\ora92\bin\SQLplus.exe

SQL*Plus: Release 9.2.0.1.0 - Production on Wed Mar 5 14:13:42 2008
Copyright (c) 1982, 2002, Oracle Corporation. All rights reserved.

Enter user-name: CDI
Enter password:

Connected to:
Oracle9i Release 9.2.0.1.0 - Production
JServer Release 9.2.0.1.0 - Production
SQL> @c:\CJIEP-Temp\DA_system_updates.sql;_
  
```

- Press “Enter” and check for errors.
- Close the window

VII. CJIEP USER'S MANUAL

Overview

This chapter is intended to show how to use DSI's CJIEP Web Application, the User Acceptance Module, and outline what subsequent steps are required in the target systems (Adult Probation, District Attorney, Jail) to complete record imports.

CJIEP Web Application – User Acceptance Module

The web application, User Acceptance Module, is the portion of the system that receives the messages, displays them to the user for approval, processes the messages, and inserts the information into the target system. The application consists of the following screens:

- Login
- Administration
- Message List
- Message Details

Login Screen

CJIEP Pennsylvania
County Justice Information Exchange Project

Login

User Id:

Password:

Application: ☒ Adult Probation
☐ Jail / OMS
☐ District Attorney
☐ Administration

For questions or comments, please contact:
The County Commissioner's Association of PA
2789 Old Post Rd
Harrisburg, PA 17110
Voice: (717)526-1010 | FAX: (717)526-1020

When starting up the CJIEP application, the **Login Screen** is where the user will begin. The user will enter their *userid* and *password*, and then select the application (Adult Probation, Jail / OMS, District Attorney) with which they will work. When the application has been selected and the user clicks *Login*, the user is then directed to the **Message List** page.

Message List Page

CJIEP
County Justice Information Exchange Project

Message List Log Out

Show Details Process Cancel

BindCaseOver

A	R	S	Show Detail	Name (Last, First, Middle)	SSN	SID	Docket Number	Matched Fields	Message Date
<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>	Smith,Johnny Thomas	123456789	98765432	CR-0000000-2007-36	LN DOB	7/9/2007

ProbationSentence

A	R	S	Show Detail	Name (Last, First, Middle)	SSN	SID	Docket Number	Matched Fields	Message Date
<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>	Soprano,Tony Carl	111111111	9999999	CR-0009999-1999-36	No Match	4/2/2007
<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>	Tony,Fat	222222222	88888888	CR-0004444-2006-36	No Match	3/30/2007

SentenceModified

A	R	S	Show Detail	Name (Last, First, Middle)	SSN	SID	Docket Number	Matched Fields	Message Date
<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>	Soprano,Tony Carl	111111111	9999999	CR-0009999-1999-36	No Match	4/2/2007
<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="checkbox"/>	Tony,Fat	222222222	88888888	CR-0004444-2006-36	No Match	3/30/2007

Show Details Process Cancel

The **Message List** page provides a list of all of the messages that are queued up and waiting to be processed into the selected target system. The messages are grouped by message type; i.e., Bind case over, Report Probation Sentence, Noncompliance Sentence Modification and Sentence Modified.

On this screen, the user may choose to *accept* (A), *reject* (R), *skip* (S) or *view details* (Show Details) for one, many, or all of the messages. This screen provides basic information about the message, such as the offender's name, and whether that offender was found in the target system; i.e., *Match* vs. *No Match*.

A message is considered either a *Match* or a *No Match* based upon the following data validation criteria established for each records management system.

1. Adult Probation and Parole System

- SID (State Identification Number)
- Last Name + Date of Birth (DOB)
- Last Name + Social Security Number (SSN)
- CPCMS Docket Number

2. District Attorney System

- a. CPCMS Docket Number
- b. SID (State Identification Number)
- c. Last Name + Social Security Number (SSN)
- d. Last Name + Date of Birth (DOB)

3. Jail System

- a. SID (State Identification Number)
- b. Last Name + Social Security Number (SSN)
- c. Last Name + Date of Birth (DOB)

view the next message selected for detail viewing by selecting *Next*. The user also has the option to *Return* to the **Message List** screen or to *Log Out* of the application.

Finally, if the user knows that the current offender is in the target system, but the message appears as a *No Match*, the user can modify four of the following match criteria – *Last Name, Social Security Number, SID and/or Date of Birth*. The user can then click the *Relink button* to have the system run the matching algorithms again; and the system will then indicate a *Match*.

Administration Page



This page is used to configure the CJIEP application. The links on this page are as follows:

Maintain Translation Table

CJIEP
County Justice Information Exchange Project

[Log Out](#)

Translation Table Administration

[Return](#)

The translation table is used to translate data from an XML message to county specific reference table values.

Application	Table Name	Column Name	Reference Table Value	XML Message Value	Action
					Add New
Probation	AP_a_offender	Race	UNK	U	Update Add Delete
Probation	AP_a_offender	Race	NAT	I	Update Add Delete
Probation	AP_a_offender	Race	ASN	A	Update Add Delete
Probation	AP_a_offender	Race	BLK	B	Update Add Delete
Probation	AP_a_offender	Race	WHI	W	Update Add Delete
Probation	AP_a_offender	Sex	FEMALE	F	Update Add Delete
Probation	AP_a_offender	Sex	MALE	M	Update Add Delete
Probation	AP_a_offender	Sex	UNKNOWN	U	Update Add Delete
Probation	AP_a_current_sentence	sentence_status	CONCURR	CONCURRENT	Update Add Delete
Probation	AP_a_current_sentence	sentence_status	CONSECT	CONSECUTIVE	Update Add Delete

This screen allows the user to set up translations for differences in codes between the **CPCMS** system and the target system. Items that are frequently used in this table include *race codes*, *disposition codes* and *grade codes*.

Docket Id Translation Maintenance

CJIEP
County Justice Information Exchange Project

Log Out

Docket Id Translation Maintenance

Please select an application type to begin...
Application Type: **PROB**

Docket Id Part Separator: Status: Active

Docket Id Part Types

Selected Docket Id Parts

CP
County Code
Docket Type
Number
Year

Year
Docket Type
Number

Additional Docket Id Part Attributes:

Docket Number Field Length:	<input type="text" value="0"/>
Remove Leading Zeros from Docket Number?	<input type="checkbox"/>
Convert Year to 2 digit?	<input type="checkbox"/>

Sample AOPC Incoming Docket Id	Translated Sample Docket Id
CP-26-CR-0000123346-2003	2003-CR-0000123346

For questions or comments, please contact:
The County Commissioner's Association of PA
2789 Old Post Rd
Harrisburg, PA 17110
Voice: (717)526-1010 | FAX: (717)526-1020

This screen is used to define the format in which the *Docket Id* is presented. Changing the format of the *Docket Id* from what is provided in the **CPCMS** message allows the application to properly match *Docket Ids* with the format in the target application. Please note that this must be defined for all 3 agencies – AP, DA and Jail. In addition, even if the respective agency uses the full CPCMS Docket ID Number, this must be defined as well.

Setup Processing Switches

CJIEP

County Justice Information Exchange Project

Log Out

Return

For each application (OMS, DA, AP) and message type, select if the message should be automatically processed, manually reviewed prior to processing, or discarded.

Application	Message	Automatic	Manual	Discard	Update
OMS	ParoleDecision	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Update
OMS	BindCaseOverOMS	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Update
DA	NonComplianceSentenceModification	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Update
DA	BindCaseOverDA	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Update
PROB	ProbationSentence	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Update
PROB	SentenceModified	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Update
PROB	BindCaseOver	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Update

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The processing switches determine what is done with a message when it is received. There are 3 options for message processing.

- Automatic processing:** If this option is selected, messages that have been matched to a record in the target system are automatically processed and the information entered into the target system. If the message is *not matched* to a record, the message will be put into the **User Acceptance Module** for manual intervention and processing. The exception to this rule is the **BindCaseOver** message. This message will be processed regardless of whether the offender record has been matched or not.
- Manual processing:** In this option, none of the messages will be processed automatically. They will all be entered into the **User Acceptance Module** for user review and acceptance.

- **Discard:** All messages of this type are discarded. This would be used when the user wants to temporarily disable reception of messages or if the user does not have the target system for which the message is intended

Reports

CJIEP
County Justice Information Exchange Project

Message Reports [Log Out](#)

[Return](#)

Report Type: Count of Messages by Status

From: September 1 2005

To: September 1 2005

[Generate Report](#)

For questions or comments, please contact:
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Harrisburg, PA 17110
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There are several reports available from this screen. These include the following:

- **Count of Message by Status,**
- **Processed Messages,** and
- **Rejected Messages.**

List Failed Messages

CJIEP County Justice Information Exchange Project				
Failed Messages				Log Out
Return				
Reprocess	Message Seq. #	Error Message	Error Date	
Re-process Message	3	Unexpected Error:, nested exception is: java.lang.ClassCircularityError: java/util/regex/Pattern	4/18/06	org.jboss.ejb.plugins.LogInterce org.jboss.ejb.plugins.LogInterce org.jboss.ejb.plugins.ProxyFact org.jboss.ejb.StatelessSessionC org.jboss.ejb.Container.invoke(Source) sun.reflect.DelegatingM java.lang.reflect.Method.invoke(org.jboss.mx.server.ReflectedDi org.jboss.mx.server.Invocation.c org.jboss.mx.server.Invocation.c org.jboss.mx.server.Invocation.c

This screen shows the list of messages that failed to be entered into the target database and what the reported error was. If applicable, there will be an option to “re-process the message”.

Target Application Finalization

After a message has been processed through the **CJIEP User Acceptance Module**, there may be additional steps required in the target application. Listed below are the additional steps required for DSI’s three target applications (AP, Jail/OMS, DA).

OMS – Jail System

When a **BindCaseOver** message is processed from the **User Acceptance Module** into the OMS application, the data goes to different places depending on whether the offender has already been entered into the target system or not. If the message found a match in the **OMS** system, then the existing record will be

updated and there are no additional steps required. If the message was not matched to a record in the **OMS**, the *offender information* is entered into the **Pre-book Module** of the application. In order to view the information in the pre-book module, select *Xmodules > Pre-Book Inmates* from the top menu. This will provide a list of the inmates queued up in the **Pre-book Module** of the application. To import an inmate from the **Pre-book Module**, start at the **booking** screen and click the *Add* button. The user will be presented with the list of inmates in **pre-book**. The user can select the inmate from the list and import the information for that inmate.

Adult Probation System

The Adult Probation system receives information from three web services. These services are **BindCaseOver**, **Report Probation Sentence** and **Sentence Modified** (modify probation sentence). When a **BindCaseOver** is received, the information contained in the message is entered into the system. If there is a matching offender, blank fields are updated. If there is *no match*, a new record is entered. When a **Report Probation Sentence** or **Modify Probation Sentence** message has been processed, the user needs to bring up the offender's record in the **Adult Probation** system and go to the **sentencing** screen. After reviewing the sentences, the user needs to order and/or group the sentences appropriately. **Note:** When the record is saved the *auto calculate* function will run and fill in the calculated dates.

District Attorney System (PMS)

The **DA** system will receive information from two web services. The first service is the **BindCaseOver** service. When a message is processed through the **BindCaseOver** service, the charges are entered into the **DA** system as *MDJ charges* and need to be accepted by the user on the **charges** screen. When a **NonCompliance Sentence Modified** message is processed, there is no further user action required.

Web Service Reference

For details regarding the specific fields to be updated by each web service, and the rules that they adhere to, please reference Appendix B of the document titled '**County Justice Information Exchange Project (CJIEP) Web Service Provider Design.**'

Glossary

Term	Description
AOPC Court Case Event Message	Message generated by AOPC's CPCMS system containing criminal justice information.
Bind Case Over Message	This is a message that indicates that an offender was bound over to court.
BindOver	Synonym for Bind Case Over Message
CJIEP	County Justice Information Exchange Pilot Project - The project to which this document refers.
CPCMS	AOPC's Court of Common Pleas Criminal Court Case Management System that will supply the information to be used for the exchanges identified for this pilot.
DA	District Attorney
JIEM	Justice Information Exchange Model – Model describing the flow of justice information between criminal justice agencies.
Match Criteria	These are the criteria used to determine whether a message has a match in the target system. See the design documentation for a listing of the match criteria.
Message	Packet of information received by the web service, providing information related to the case.
Message Type	The type of the message received. In the context of this document, a message type is determined by the web service that received it.
NonCompliance	Synonym for NonCompliance Sentence Modification
NonCompliance Sentence Modification	This is a message containing sentencing information for non-compliance of a probation sentence.
Offender	The person who is the subject of a message.
OMS	Offender Management System.
Pre-Book Module	Staging area in the OMS application used to store offender information for offenders who have not yet been entered into the OMS application.
ProbationSentence	Synonym for Report Probation Sentence Message

Term	Description
Report Probation Sentence Message	This is a message that contains probation sentencing information for an offender.
Service Agent	The mechanism responsible for packaging the exchange message, identifying the specified service provider for the exchange, and for accessing the provider's web service to exchange the message.
Target System	The DSI system that will receive the message information. The target systems included in this pilot are Adult Probation (AP), District Attorney (DA), and Offender Management System (OMS).
User Acceptance Module	This is the screen that the user utilizes to process messages into the target application.
Web Services	Web Services encompasses a collection of protocols and technologies allowing a standardized exchange of data.

VII. TROUBLESHOOTING QUICK-REFERENCE GUIDE

Overview

This chapter is meant to be a reference guide for troubleshooting issues that may occur with the CJIEP implementation. It provides several areas of the system to check, as well as the appropriate action(s) to take.

Log Files

There are three separate log files that may aid in troubleshooting. In addition to these log files, the system event log may show other information not available in the log.

- 1) Apache Tomcat logs
 - a. View this log to troubleshoot problems related to the bridge or receiving messages from JNET. Symptoms of Apache Tomcat problems include (but are not limited to)
 - i. Messages not being received
 - ii. User Acceptance Module (GUI) not displaying.
 - b. Located at c:\Program Files\Apache Software Foundation\Apache Tomcat 5.0\logs
- 2) Service Agent Logs:
 - a. View this log file to troubleshoot any problems related to the service agent. Symptoms of Service Agent problems include (but are not limited to)
 - i. Messages not being received from the JNET queue.
 - ii. Messages being received, but not filtering correctly.
 - b. Located at c:\Program Files\CJIEP ServiceAgent\ServiceAgent.log
- 3) JBOSS logs:
 - a. View this log file to troubleshoot problems related to the web services. Symptoms of JBOSS problems include (but are not limited to)
 - i. Messages being received, but not distributed to the web services.
 - ii. Messages not showing up in the User Acceptance Module (or GUI) or in the legacy/target system.
 - iii. User Acceptance Module not able to be accessed.
 - b. Located at c:\Jboss-3.2.6\server\all\log\server.log

Services

There are several services that may need to be restarted depending on the problem. These services are:

- 1) Apache Tomcat
- 2) CJIEP ServiceAgent
- 3) JBOSS

Symptoms and Resolutions

This section will detail some problems we have encountered and the resolution. Please note that this is not an all-inclusive list.

- 1) Messages not being Received from JNET
 - a. Symptoms:
 - i. No recent messages in the folders under e:\Program Files\CJIEP ServiceAgent\
 - b. Possible problem(s) and solution(s):
 - i. No new messages to process
 1. Verify that messages should have been received.
 - ii. The bridge to connect to JNET is down.
 1. Restart the Apache Tomcat service, wait a couple of minutes to see if messages are received.
 2. Contact JNET to see if:
 - a. The queues are up and running
 - b. There are messages in the queue
 - c. If JNET can see the CJIEP bridge connected to the queue.
 - i. If not, verify with JNET that the settings in Program Files\CJIEP ServiceAgent\Service Agent.exe.config are correct.
 - iii. No messages sent from AOPC
 1. Contact AOPC to see if messages have been sent.
- 2) Messages being received but not being sent to web services.
 - a. Symptoms:
 - i. Messages are in the INMESSAGES folder, but not being distributed to the other folders.
 - ii. Messages have been distributed, but are not being moved from the folders.
 - b. Possible problem(s) and solution(s):
 - i. Service Agent is turned off
 1. Verify the Service Agent service is started.
 - ii. JBOSS is not functioning
 1. Restart the JBOSS service

- 3) User Acceptance Module (GUI) is unavailable
 - a. Symptoms:
 - i. "Page cannot be displayed" error when attempting to view the User Acceptance Module.
 - b. Possible problem(s) and solution(s):
 - i. JBOSS is down
 1. Restart the JBOSS service. Wait approximately 2 minutes and reattempt to view the User Acceptance Module.
- 4) All messages are being rejected
 - a. Symptoms:
 - i. All messages are being moved to the REJECTEDMESSAGES folder
 - b. Possible problem(s) and solution(s):
 - i. Messages are not for your county
 1. View messages and verify the COUNTYID and JURISDICTIONID elements.
 - ii. Messages are being filtered off
 1. Messages are filtered based off of the ActionTypeText. View messages and verify that they will pass the filters set up in the Program Files\CJIEP ServiceAgent\ServiceAgent.exe.config file.
 - iii. Messages are invalid
 1. Ensure schema has not changed. If it has, contact AOPC.
- 5) Messages not showing up on User Acceptance Module.
 - a. Symptoms:
 - i. Messages are flowing, and being moved to the ACCEPTEDMESSAGES folder, but not showing up on GUI
 - b. Possible problem(s) and solution(s):
 - i. Connection information is not correct.
 1. Verify that the connection information is correct, and the systems are up and running. Connection information can be found in:
 - a. JBOSS-3.2.6\Server\all\deploy\
 - i. oracle-ds.xml
 - ii. prob-ds.xml
 - iii. da-ds.xml
 - iv. oms-ds.xml

APPENDICES

APPENDIX 1: ARCHITECTURAL SOLUTIONS AND TECHNICAL REQUIREMENTS

APPENDIX 2: COUNTY INFORMATION EXCHANGE SERVICE ORIENTED ARCHITECTURE STANDARDS

APPENDIX 3: DETAILED SYSTEM DESIGN

APPENDIX 4: CJIEP PILOT WEB SERVICE PROVIDER DESIGN

APPENDIX 5: UML AND SERVICE SEMANTICS FOR CJIEP PILOT SCOPE

APPENDIX 6: INFRASTRUCTURE REQUIREMENTS – HARDWARE AND SOFTWARE SPECIFICATIONS